







INDEX OF PATENTS

RELATING TO

ELECTRICITY,

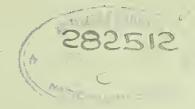
EMBRACING PATENTS ISSUED BY

THE UNITED STATES PATENT OFFICE

FROM JULY 1, 1883, TO JUNE 30, 1884.

APPENDIX No. III.

COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1885.







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ELECTRICITY,

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ADDENDA.

The following patents were omitted in the former indexes:

No.	Name.	Class.	Date.
231,377 235,616	Smith, H. J.— Thierman, J. H Bell, A. G.— Goodrich, P. F	Boat-steering	Apr. 8, 1873 Aug. 17, 1880 Dec. 21, 1880 Jan. 9, 1883

NOTE.—The following new sub-classes have been added:

82. Anti-Induction Devices:

Apparatus for neutralizing the effects upon telephonic or telegraphic receivers, due to extraneous induction.

81. Conductors, Anti-Inductive:

Conductors specially adapted for neutralizing the effects of extraneous induction in telephonic and telegraphic receivers.

80. Cut-Outs, Electro-Magnetic:

Devices for automatically cutting out translating apparatus on abnormal strength of current.

79. CUT-OUTS, MECHANICAL:

Hand switches for cutting out translating devices.

78. CUT-OUTS, THERMAL:

Devices for automatically cutting out translating apparatus on abnormal temperature.

85. SWITCH-BOARDS:

Apparatus for electrically connecting together two or more outlying circuits.

83. Transmission of Power:

Systems and apparatus for transmitting power to distant points by electricity.

84. VALVE CONTROLLERS:

Electrical devices for regulating and controlling valve movements.

APPENDIX No. III.

PART I.

CONSISTING OF A

SUB-CLASS INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1883, to June 30, 1884, inclusive, giving names of Inventors, and dates and numbers of Patents in each sub-class in numerical and chronological order.



CLASSIFIED INDEX

 \mathbf{or}

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1883, TO JUNE 30, 1884.

1. ALARMS.

No.	NAME.	DATE.	No.	Name.	DATE.
286,581	Blake, J. E. and Hall, C. A	Oct. 16, 1883	295,581	Pace, R. G. and Wev, W. J.	Mar. 25, 1884
	-	2. ALARMS	.—Burgl	AR.	
280,472 280,578 284,808 285,334 286,566 286,888 289,470 289,471	Helman, O. A	July 3, 1883 Sept. 11, 1883 Sept. 18, 1883 Oct. 9, 1883 Oct. 16, 1883 Dec. 4, 1883	289,665 291,310 292,786 292,806 292,807 295,445	Lazelle, J. L	Jan. 1, 1884
		3. ANNUN	CIATOR	S.	
281,931 282,016 283,073 283,590 284,878 286,529 286,970 287,664 289,233 289,411	Shivler, C. S Van Benschoten, S. and Johnson, H. H. Capron, J Flint, E., jr. McCormick, D. A Buell, C. E Sperry, E. A Gordon, W. C Corwin, W. S Happersberger, F 82 Bernstein, A	Oct. 9, 1883 Oct. 16, 1883 Oct. 30, 1883 Nov. 27, 1883 Dec. 4, 1883	289,552 291,063 292,115 294,212 298,080 298,242 299,546 300,134 300,168 300,607 300,976	Palmer, A. C Leitch, A. E Herzog, F. B Farnham, I. H Gilchrist, J. D Seiler, P Hovenden, G. E. aud E. R Vail, T. N Hewett, R. J Howard, C. W EVICES.	Jan. 15, 1884 Feb. 26, 1884 May 6, 1884 May 6, 1884 June 3, 1884 June 10, 1884 June 10, 1884 June 17, 1884 June 24, 1884
	Δ	. APPLICATIO	NS_GE	NEDAT	
	4	. AFFLICATIO	JAS.—GE	NERAL.	
280,838 280,882 282,190 282,822 282,964 284,862 286,208 236,288 287,089 287,495 287,617 287,957 289,642	Loomis, B. Tichenor, A. C. Hall, H. D. Willard, C. A. Delaplaine, J. L., Hendrickson, J. G. and Clamer, F. J. Lackersteen, M. H. Létrange, L. Frasch, H. Bendix, J. Baron, E. Brainerd, H. C. Osborne, J. W. Giles, C. K.	July 31, 1883 Aug. 7, 1883 Aug. 14, 1883 Oct. 9, 1883 Oct. 9, 1883 Oct. 23, 1883 Oct. 30, 1883 Oct. 30, 1883 Nov. 6, 1883	289,649 289,720 290,926 290,927 290,930 292,317 293,338 293,518 294,128 295,686 298,361 298,397 299,649	Hardie, J. W Shields, J Rew, H. C Rew, H. C Rew, H. C Joseph, T. B Many, C. M Prince, J Healy, O Sparrow, F. M Erling, P. R Oppenheimer, L. K Keep, W. F. and W. H	Dec. 4, 1883 Dec. 4, 1883 Dec. 25, 1883 Dec. 25, 1883 Dec. 25, 1883 Jan. 22, 1884 Feb. 12, 1884 Feb. 12, 1884 Feb. 26, 1884 Mar 23, 1884 May 13, 1884 June 3, 1884

5. APPLICATIONS.—Tools and Machines.

No.	Name.	DATE.	No.	NAME.	DATE.		
281,224 283,058 285,008 286,030 287,855 287,897 288,102 288,395 288,677 289,693 291,288 291,463 291,575	Goodsell, B. H., Adamson, C. and Hering, C. O. Arnheim, M.—Burke, J. T.—Marcus, S.—Parker, L. C.—Baldwin, C. W.—Nickum, G. S.—Bain, F.—Stevenson, T. S.—Nash, L. H.—Brown, A. T.—Ball, C. E. and Bradford, C. S., jr—Campbell, A.—	Nov. 20, 1883 Dec. 4, 1883 Jan. 1, 1884	291,925 291,948 292,178 293,179 293,735 293,851 296,148 296,341 297,111 298,030 299,572 299,745	Morton, E. W. Small, D. M. Rider, A. K. King, C. W. and Cliff, A. Henderson, J. C. De Castro, J. W. Delmage, W. A. Maxim, H. S. Gillon, L. Campbell, A. Schmid, A. Oliver, H. W., jr. Cooke, F. C.	Jan. 15, 1884 Jan. 22, 1884 Feb. 5, 1884 Feb. 19, 1884 Apr. 1, 1884 Apr. 8, 1884 Apr. 8, 1884 Apr. 22, 1884 June 3, 1884		
		6. BATTERIE	S.—Galv	ANIC.			
280,933 Karshner, W. W. July 10, 1883 291,286 Brewer, H. J. Jan. 1, 281,262 Gilbert, J. W. and Starr, E. T. July 17, 1883 291,286 Brewer, H. J. Jan. 15, 282,634 Hayes, P. S. Aug. 7, 1883 292,310 Himmer, I. C. Jan. 22, 282,785 Starr, E. T. Aug. 7, 1883 292,433 Howell, T. J. Jan. 22, 282,785 Starr, E. T. Aug. 7, 1883 293,272 Pope, F. L. Feb. 12, 76b, 12, 7							
72. BATTERIES.—SECONDARY.							
281,156 282,396 282,414 283,295 284,342 284,343 284,577 285,529 285,807 286,259 289,386 290,611 290,941 290,943 291,526 291,850 292,034 292,142	Starr, E. T Starr, E. T Van Depoelc, C. J Starr, E. T Tompkins, C. T Tribe, A Starr, E. T. and E. E Van Depoelc, C. J Fox, St. G. L Brush, C. F Case, W. E Taylor, W. and King, F Starr, E. T Starr, E. T Starr, E. T Molera, E. J. and Cebrian, J. C Knowles, E. R Molera, E. J. and Cebrian, J. C Smyth, C. A	July 31, 1883 July 31, 1883 Ang. 14, 1883 Sept. 4, 1883 Sept. 4, 1883 Sept. 25, 1883 Oct. 2, 1883 Oct. 2, 1883 Dec. 4, 1883 Dec. 18, 1883 Dec. 25, 1883 Dec. 25, 1883 Dec. 25, 1883 Jan. 8, 1884 Jan. 8, 1884 Jan. 15, 1884	292,469 292,762 294,463 294,464 294,465 295,455 295,456 295,889 296,164 296,262 296,331 296,849 297,457 298,348 299,177 299,434 300,052 300,933	Case, W. E	Jan. 29, 1884 Mar. 4, 1884 Mar. 4, 1884 Mar. 18, 1884 Mar. 18, 1884 Mar. 25, 1884 Apr. 1, 1884 Apr. 1, 1884 Apr. 15, 1884 Apr. 22, 1884 Apr. 22, 1884 May 27, 1884 May 27, 1884 May 27, 1884 June 10, 1884		
	77. DA1	THILIDS. SEC	JADAKI.	ATTIMOSTIONS.			
281,175 281,176 285,602 285,714 288,888 289,320	Brnsh, C. F Brush, C. F Brush, C. F Farmer, M. G Weston, E Strondley, W. and Houghton, E. J. Weston, E. and Curtis, L. E	Jnly 10, 1883 Sept. 25, 1883 Sept. 25, 1883 Nov. 20, 1883	290,468 290,470 290,873 291,465 299,021	Perkins, C. G.——————————————————————————————————	Dec. 18, 1883 Dec. 18, 1883 Dec. 25, 1883 Jan. 1, 1884 May 20, 1884		
		73. BATTERII	ES.—Thei	RMAL.			
289,631 Eaton, A. K I							

	1 10000	7. BE	ELLS.				
No.	Name.	DATE.	No.	NAME.	DATE.		
284,480 288,202 290,495 293,571	Pope, F. L Bowen, W. J Than, H Gassett, O	Sept. 4, 1883 Nov. 13, 1883 Dec. 18, 1883 Feb. 12, 1884	293,980 296,729 300,253	Redding, J Conant, G. P Hazazer, E. W	Feb. 19, 1884 Apr. 15, 1884 June 10, 1884		
		8. BOAT-S	ΓEERING	J.			
297,647	Tuck, J. H. L				Apr. 29, 1884		
		9. CAR-I	BRAKES.				
284,365 289,896 290,689 293,993 296,211	Beidler, H. M	Sept. 4, 1883 Dec. 11, 1883 Dec. 25, 1883 Feb. 19, 1884 Apr. 1, 1884	296,212 296,319 296,349 296,546 296,549	Park, H. S Duwelius, A. L Park, H. S Flad, H	Apr. 8, 1884 Apr. 8, 1884 Apr. 8, 1884		
	·	10. CIRCUI	r-closei	RS.			
281,202 282,246 283,303 284,715 286,100	Phelps, L. J	July 10, 1883 July 31, 1883 Aug. 14, 1883 Sept. 11, 1883 Oct. 2, 1883	287,618 293,626 294,404 296,812 300,098	Brigel, L. A	Oct. 30, 1883 Feb. 19, 1884 Mar. 4, 1884 Apr. 15, 1884 June 10, 1884		
		11. CL	OCKS.				
280,715 281,585 284,355 284,357 285,088 286,181 287,015 288,175 288,175 288,623 288,623 288,906 289,944 290,894 292,962 293,613	Buell, C. E. Wagner, G. G. Bailey, H. L. Sweet, D. F. Van Wagenen, H. G. Crane, A. S. Gardner, W. F. Hamblet, J. Schlaefli, J. P. A. Crane, A. S. Willson, R. W. Webb, G. B. Kettell, J. F. Talbot, C. N. Herotizky, G. M.	July 3, 1883 July 17, 1883 Sept. 4, 1883 Sept. 18, 1883 Oct. 9, 1883 Oct. 23, 1883 Nov. 6, 1883 Nov. 13, 1883 Nov. 20, 1883 Nov. 20, 1883 Dec. 11, 1883 Dec. 11, 1883 Feb. 5, 1884 Feb. 12, 1884	294,131 294,132 294,552 295,873 296,256 296,653 298,205 298,301 298,557 299,561 299,562 300,139	Himmer, V.—Himmer, V.—Webb, G. B.—Sawyer, W. H.—Jungerman, E.—Wagner, G. G.—Waldo, F.—A.—Himmer, I. C. and Weisgerber, W. F.—Himmer, V.—Diolot, S.—Lytle, H. B. and Carty, J. J.—Schisgall, S.—	Feb. 26, 1884 Mar. 4, 1884 Mar. 18, 1884 Mar. 25, 1884 Apr. 1, 1884 Apr. 8, 1884 May 6, 1884 May 13, 1884 June 3, 1884		
13. CONDUCTORS.							
280,366 280,474 280,518 280,521 10,349 10,350 10,351 280,947 281,223 281,841 281,864 281,999 10,403 10,404 282,680 282,614 283,044 283,044	Dunham, T. H Herrmann, L. A. F Rogers, J. W Sawyer, W. H Waring, R. S. and Hyde, J. B. (Reis.) Waring, R. S. and Hyde, J. B. (Reis.) (Reis.) Waring, R. S. (Reis.) Ohl, P. C Rogers, H. D Cowles, A. A Gilpin, J. F Hyde, J. B Hyde, J. B Hyde, J. B Sparling, J. A Martin, J. F Turner, D. B Pope, H. W	July 3, 1883 July 3, 1883 July 3, 1883 July 3, 1883 July 10, 1883 July 10, 1883 July 24, 1882 July 24, 1883 July 24, 1883 Nov. 6, 1883 Nov. 6, 1883 Aug. 7, 1883 Aug. 14, 1883	283,200 283,433 283,760 283,763 283,764 284,094 284,098 284,137 284,138 284,226 284,229 284,423 284,668 284,959 284,970 285,327 285,672 285,673 286,035	Brissett, H. R. and Howe, J.—Stanley, H. D. and Doolittle, G.—Daft, L.—Delany, P. B.—Delany, P. B.—Van Hoevenbergh, H.—Waring, R. S.—McElroy, W. J.—McElroy, W. J.—Patterson, W. R.—Fleming, J. A.—Hollingshead, W. B.—Putnam, T. A. B.—Halkyard, W.—Moore, F.—Weaver, A. S.—Le Grande, W. W.—Phillips, H. O.—Phillips, H. O.—Mayall, T. J.—	Aug. 21, 1883 Aug. 28, 1883 Sept. 4, 1883 Sept. 4, 1883 Sept. 4, 1883 Sept. 11, 1883 Sept. 18, 1883 Sept. 25, 1883 Sept. 25, 1883 Sept. 25, 1883		

13. CONDUCTORS.—Continued.					
No.	NAME.	DATE.	No.	NAME.	Date.
286,036 286,220 286,437 286,698 286,796 286,829 286,937 286,946 286,963	Mayall, T. J. Phillips, H. O. Hirley, J. V. Henley, W. T. Egleston, T. Kohmescher, J. H. Martin, J. F. Martin, J. F. Reed, T. S	Oct. 9, 1883 Oct. 9, 1883 Oct. 16, 1883 Oct. 16, 1883 Oct. 16, 1883 Oct. 16, 1883	291,239 291,399 291,716 291,717 291,718 292,539 292,694 292,717 292,772	Stanley, H. D. Randall, N. Greives, J. Greives, J. Greives, J. Cowles, A. A. Shaw, W. A. Weston, E. Van Hoevenbergh, H.	Jan. 8, 1884 Jan. 8, 1884 Jan. 29, 1884 Jan. 29, 1884 Jan. 29, 1884
287,092 287,146 287,236 287,288 287,766 287,776 288,132 10,401 10,402 288,443	Breunan, J. W. and Rousseau, N. Martin, J. F. Clark, E. Jacob, F. Van Depoele, C. J. McGill, G. W. Phillips, H. O. Stanard, R. T. Farrell, J. (Reis.) Johnson, L. (Reis.)	Oct. 23, 1883 Oct. 23, 1883 Oct. 23, 1883 Oct. 23, 1883 Oct. 23, 1883 Oct. 30, 1883 Oct. 30, 1883 Nov. 6, 1883 Nov. 6, 1883 Nov. 6, 1883 Nov. 6, 1883	292,847 292,848 292,849 293,271 293,433 293,775 294,148 294,457 295,073 295,207	Patterson, W. R.——————————————————————————————————	Feb. 5, 1884 Feb. 5, 1884 Feb. 5, 1884 Feb. 12, 1884 Feb. 12, 1884 Feb. 19, 1884 Feb. 26, 1884 Mar. 4, 1884 Mar. 11, 1884 Mar. 18, 1884
288,454 288,795 289,077 289,092 289,575 289,725 289,890 290,057 290,058 290,121 290,122 290,753 290,881 291,170	Kruesi, J Hamon, A. H Doolittle, G. and Stanley, H. D Halkyard, W Shaw, T Tainter, S Chambers, J. C Hyde, J. B Hyde, J. B Shaw, W. A Shaw, W. A Delany, P. B Hyde, J. B Edmunds, H., jr	Nov. 20, 1883 Nov. 27, 1883 Nov. 27, 1883 Dec. 4, 1883 Dec. 11, 1883 Dec. 11, 1883 Dec. 11, 1883 Dec. 11, 1883 Dec. 11, 1883 Dec. 11, 1883	295,232 295,966 296,074 296,294 297,181 297,547 297,586 298,179 300,179 300,403 300,403 300,669 301,031	Williamson, J. J Shaw, T Miner, T Shelbourne, S. F Wright, A. P Edison, T. A Page, J. H Conner, C Williamson, J. J Splitdorf, H Tichenor, A. C Williamson, J. J Weston, E	Apr. 1, 1884 Apr. 1, 1884 Apr. 1, 1884 Apr. 22, 1884 Apr. 22, 1884 Apr. 29, 1884 Apr. 29, 1884 Apr. 29, 1884 June 10, 1884 June 17, 1884 June 17, 1884 June 17, 1884
	81. (CONDUCTORS	—Anti-I	NDUCTIVE.	
284,425 284,426 286,948 286,949 290,769 290,853 290,854 290,971 291,715 297,175	Huck, C. Huck, C. Martin, J. F. Martin, J. F. Gray, G. Campbell, H. F. Campbell, H. F. Campbell, H. F. Greives, J. and Bleoo, J. H. Shelbourne, S. F.	Sept. 4, 1883	297,176 297,177 297,178 297,180 297,184 297,406 297,688 297,855 298,751	Shelbourne, S. F Shelbourne, S. F Shelbourne, S. F Shelbourne, S. F Shelbourne, S. F Jamieson, W Guilleaume, F. C Sawyer, W. H Harrington, F. S	Apr. 22, 1884 Apr. 22, 1884 Apr. 22, 1884 Apr. 22, 1884 Apr. 22, 1884 Apr. 29, 1884 Apr. 29, 1884
		14. CONN	ECTORS.		
281,730 282,249 282,250 283,276 284,216 284,915 290,844 291,211 292,180	Ricketts, P. C. Westinghouse, G., jr Westinghouse, G., jr Pope, H. W. Lytle, H. B. Somers, G. E. Bowman, C. M. McIntire, C. Ryder, S.	July 31, 1883 July 31, 1883 Aug. 14, 1883 Sept. 4, 1883 Sept. 11, 1883 Dec. 25, 1883 Jan. 1, 1884	294,851 294,928 295,371 295,559 296,160 296,547 297,655 298,326 299,467	Childs, W. A. and Shaw F Stevenson, T. S	Mar. 11, 1884 Mar. 18, 1884 Mar. 25, 1884 Apr. 1, 1884 Apr. 8, 1884 Apr. 29, 1884 May 6, 1884
	80.	CUT-OUTS.—E	LECTRO-M	AGNETIC.	
289,630 290,732 291,299 291,483 291,484 291,648 291,652 291,958 292,796	Dyer, J. W. Bogart, A. L. Connolly, A. A Baker, W. H Baker, W. H Van Depoele, C. J Van Depoele, C. J Thomas, W. M Dyer, J. W	Dec. 25, 1883 Jan. 1, 1884 Jan. 8, 1884 Jan. 15, 1884	293,921 293,943 293,944 296,125 297,385 300,532	Townsend, H. C. and Buckingham, C. L. Buckingham, C. L. and Townsend, H. C. Buckingham, C. L. and Townsend, H. C. Buckingham, C. L. and Townsend, H. C. Greene, E. M. Thomas, W. M.	Feb. 19, 1884 Feb. 19, 1884 Feb. 19, 1884 Apr. 1, 1884 Apr. 22, 1884 June 17, 1884

79. CUT-OUTS.—MECHANICAL.								
No. NAME. DATE. No. NAME. DATE.								
284,031 287,875	Lothrop, C. HShepard, C. S	Aug. 28, 1883 Nov. 6, 1883	291,825	Williams, A. and Gannon, J. M.	Jan. 8, 1884			
		78. CUT-OUT	S.—THER	MAL.				
283,492 284,714 287,320 288,682	Kinsman, F. E Bernstein, A Perkins, C. G Van Depoele, C. J	Aug. 21, 1883 Sept. 11, 1883 Oct. 23, 1883 Nov. 20, 1883	292,586 292,713 292,785 301,030	Rhodes, T. H.——————————————————————————————————				
	1	5. DENTAL I	NSTRUM	ENTS.				
294,059 294,817								
		· 20. ELECT	ROLYSIS	S.				
282,879 286,359 290,949 291,670 292,119 292,753	Garrett, D	Oct. 9, 1883 Dec. 25, 1883 Jan. 8, 1884 Jan. 15, 1884	293,886 294,051 296,357 297,669 300,035 300,951	Jones, J. B	Feb. 19, 1884 Feb. 26, 1884 Apr. 8, 1884 Apr. 29, 1884 June 10, 1884 June 24, 1884			
21. ELECTRO MAGNETS.								
293,116 294,669	Timmis, I. A. and Currie, S. C. C. Pope, F. L.		296,380	Bain, F	Apr. 8, 1884			
22. EXPLODING.								
287,221 289,768 289,966	Brasher, T. M	Dec. 4, 1883	294,351 297,648	Bartlett, W. ATuck, J. H. L	Mar. 4, 1884 Apr. 29, 1884			
24. GAS LIGHTING.								
280,689 281,345 281,471 282,043 282,227 282,816 282,890 284,516 284,784	Towan, J. H	July 3, 1883 July 17, 1883 July 17, 1883 July 31, 1883 July 31, 1883 Aug. 7, 1883 Aug. 7, 1883 Sept. 4, 1883 Sept. 11, 1883	285,682 286,481 290,441 292,374 293,330 295,059 297,879 298,531	Rousseau, D	Oct. 9, 1883 Dec. 18, 1883 Jan. 22, 1884 Feb. 12, 1884 Mar. 11, 1884 Apr. 29, 1884			
16. HEATERS.								
287,380	Hughes, C. T	Oct. 23, 1883	287,758	Dyer, R. N. and Seely, H. W-	Oct. 30, 1883			
		25. INCRU	STATION	Χ.				
285,615	Hannay, J. B				Sept. 25, 1883			

26. INDICATORS.

No.	NAME.	DATE.	No.	Name.	DATE.		
284,114 284,382 286,722 287,654 288,402 290,101	Blodgett, A. D., Read, R. M. and Tirrell, J. P. Clarke, C. L. Martin, M. Freeman, W. P. Borodoulin, N. Page, H. W. and Carley, H	Aug. 28, 1883 Sept. 4, 1883 Oct. 16, 1883 Oct. 30, 1883 Nov. 13, 1883 Dec. 11, 1883	292,714 294,195 298,906 299,011 299,552 300,202	Weston, E————————————————————————————————————	Feb. 26, 1884 May 20, 1884 May 20, 1884		
		27. INDUCT	YOX-COI	LS.			
281,097	MeGinnis, W. T	July 10, 18 83	297,924	Gaulard, L. and Gibbs, J. D.	Apr. 29, 1884		
		28. INSU	LATORS.				
281,452 286,681 286,801 287,830 288,360 289,449 290,922 293,242 293,901 294,384 294,563	Chapman, T. L Bowen, W. J Fiske, B. A. and Mott, S. D Hinsdale, C. C Oakman, S Rousseau, N Pope, F. L Hale, A. W McGrory, T Hale, A. W Beach, W. W	Oct. 16, 1883 Oct. 16, 1883 Nov. 6, 1883 Nov. 13, 1883 Dec. 4, 1883 Dee. 25, 1883 Feb. 12, 1884 Feb. 19, 1884 Mar. 4, 1884	296,485 296,558 296,688 296,881 297,101 297,677 297,699 298,072 298,593 298,594 298,753	Tringham, J. W	Apr. 8, 1884 Apr. 8, 1884 Apr. 8, 1884 Apr. 15, 1884 Apr. 22, 1884 Apr. 29, 1884 Apr. 29, 1884 May 13, 1884 May 13, 1884 May 20, 1884		
		29. K	EYS.				
281,362 281,603 284,508 288,609	Hart, L. H.——————————————————————————————————	July 17, 1883 July 17, 1883 Sept. 4, 1883 Nov. 20, 1883	293,105 293,979 294,259 297,819	Spurgeon, S. J Plumb, C Neifing, J Lewis, C. W	Feb. 5, 1884 Feb. 19, 1884 Feb. 26, 1884 Apr. 29, 1884		
	3	0. LIGHTNING	G-ARRES	TERS.			
280,916 281,723 282,921 287,647	Drake, C. C.—————————————————————————————————	July 24, 1883 Aug. 7, 1883	289,629 295,267 296,407	Dyer, J. W MeDaniel, C. W Griffin, J	Dec. 4, 1883 Mar. 18, 1884 Apr. 8, 1884		
31. LIGHTNING-RODS.							
282,449 282,562 283,166 284,082 286,086 287,286 287,929	Dodge, T. H.——————————————————————————————————	Aug. 7, 1883 Aug. 14, 1883 Aug. 28, 1883 Oct. 2, 1883 Oct. 23, 1883	289,076 290,558 293,612 297,290 297,291 298,357	Dodge, T. H	Nov. 27, 1883 Dec. 18, 1883 Feb. 12, 1884 Apr. 22, 1884 Apr. 22, 1884 May 13, 1884		
		17. LIGH	TS.—Arc				
280,426 280,677 280,709 280,763 281,048 281,229 281,285 281,698 281,890 281,891 282,461	Wheeler, W Senour, F. L Bain, F Rabl, F Frasch, H Ball, C. M Moffitt, J. A Keith, N. S Sheehy, R. J Lea, J Knowles, E. R	July 3, 1883 July 3, 1883 July 3, 1883 July 10, 1883 July 17, 1883 July 24, 1883 July 24, 1883 July 24, 1883 July 24, 1883	283,042 283,168 283,186 283,437 283,482 283,629 283,662 284,497 284,939 285,107 285,445	Thomas, W. M. Thomson, E. Bain, F. Thomson, E. Haskins, C. D. Maxim, H. S. Richter, C. Sheehy, R. J. Bain, F. Bucker, R. Tibbits, J. B.	Aug. 14, 1883 Aug. 14, 1883 Aug. 21, 1883 Aug. 21, 1883 Aug. 21, 1883 Aug. 21, 1883 Aug. 21, 1883 Sept. 4, 1883 Sept. 11, 1883 Sept. 11, 1883 Sept. 18, 1883 Sept. 25, 1883		

17. LIGHTS-ARC.—Continued.

No.	Name.	Date.	No.	Name.	Date.
225 451	W . D	0 . 25 1000	201.201	TV . 1 G	13.1 00 1004
285,451	Weston, E		294,294	Waterhouse, A. G.	
285,715	Weston, E		294,455	Earle, H. A. and Goltstein, E	
286,093	Van Depoele, C. J.	Oct. 2, 1883	294,532	Van Depoele, C. J.	
286,094	Van Depoele, C. J	Oct. 2, 1883	294,533	Van Depoelc, C. J.	
286,144	Moffatt, R. R.		295,058	Shechy, R. J.	
286,925	Hauss, D. J., McNamara, T. E.	Oct. 16, 1883	295,367 295,664	Dennis, T. L.	
286,953	and Zerbe, J. S. Moses, O. A	Oct. 16, 1883	295,836	Morava, WThomson, E	
287,067	Tibbits, J. B.	Oct. 23, 1883	297,022	Skinner, J. J	
287,344	Van Depoele, C. J	Oct. 23, 1883	297,194	Thomson, E	
288,157	Baxter, W., jr	Nov. 6, 1883	297,195	Thomson, E	
288,346	Knowles, E. R		297,196	Thomson, E	
288,826	McConnell, J. T	Nov. 20, 1883	297,197	Thomson, E	Apr. 22, 1884
288,831	McTighe, T. J. and McConnell,		297,198	Thomson, E	
200,001	J. T.	101.20, 1000	297,199	Thomson, E	
289,580	Thomson, E	Dec. 4, 1883	297,200	Thomson, E	
289,823	Freeman, W. P	Dec. 11, 1883	297,201	Thomson, E	Apr. 22, 1884
290,150	Unger, J. and Eisele, S. O	Dec. 11, 1883	297,580	Edison, T. A	
290,292	Van Hoevenbergh, H	Dec. 18, 1883	297,820	Loder, J. H	
290,836	Beckwith, W. C.	Dec. 25, 1883	297,833	Nungesser, P. P	Apr. 29, 1884
291,553	Van Depoele, C. J.		299,025	Short, S. II	
291,651	Van Depoele, C. J.		299,397	Jones, E. and A. E	
291,653	Van Depoele, C. J.		299,600	Turner, T. G	
292,113	Hayes, C. H		300.095	Lynn, M. N	
292,293	Fitch, F. K		300,433	Bain, F	
292,840	Moses, O. A.		300,489	Lever, C	
293,076	Piette, L. and Krizik, F	Feb. 5 1884	300,676	Bain, F	
293,495	Moses, O. A	Feb. 12, 1884	300,999	Newton, F. M	
294,027	Freeman, W. P	Feb. 26, 1884	301,076	Weston, E	June 24 1884
294,042	Hochhausen, W.	Feb. 26, 1884	302,0.0	656011, 12-1-1-1-1	9 MAG 2 1, 100 1
		18. LIGHTS.—	-Incandes	CENT.	
280,340	Bernstein, A	Tul. 9 1009	980 456	Sheehy, R. J	Dog 4 1999
280,341	Bernstein, A		289,456 $289,590$	White, N. S	
282,030	Adams, I., jr		290,467	Perkins, C. G.	
282,460	Knowles, E. R		290,469	Perkius, C. G.	
282,472	Swan, A	July 31, 1883	291,171	Edmunds, II., jr	
282,521	Holtzer, C. W	Aug. 7, 1883	291,464	Beeman, J. S	
282,534	Knowles, E. R. and Idell, F. E-		291,867	Blamires, T. II	Jan. 15, 1884
282,861	D'Humy, P. R. de F		292,324	Knowles, E. R. and Idell, F. E-	
283,270	Mott, S. D		292,403	Beeman, J. S	Jan. 22, 1884
284,409	Gatehouse, T. E		292,447	Swan, A	
285,784	Bartlett, G. P.		293,256	Languereau, J	
286,350	Vail, J. H.		293,434	Edison, T. A	
286,916	Fitz Gerald, D. G		294,044	Hochhausen, W	Feb. 26, 1884
287,313	Perkins, C. G.	Oct. 23, 1883	295,087	Welsh, A	
287,314	Perkins, C. G.	Oct. 23, 1883	295,088	Welsh, A	Mar. 11, 1884
287,319	Perkins, C. G.	Oct. 23, 1883	297,377	Gatehouse, T. E	Apr. 22, 1884
287,323	Perkins, C. G	Oct. 23, 1883	297,585	Edison, T. A	Apr. 29, 1884
287,518	Edison, T. A.	Oct. 30, 1883	298,142	Weston, E	May 6, 1884
287,519	Edison, T. A.	Oct. 30, 1883	298,143	Weston, E	May 6, 1884
287,520	Edison, T. A	Oct. 30, 1883	298,144	Westou, E	
288,217	Edmunds, H., jr	Nov. 13, 1883	298,325	Weston, E	
288,218	Edmunds, H., jr	Nov. 13, 1883	299,708	Welsh, A	June 3, 1884
288,971	Benson, G. T	Nov. 27, 1883	299,885	Welsh, A	June 3, 1884
	10. F	MATC CTUME	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A DDI I I MOTO	
	19. E	IGHTS.—Syste	AND A	AFFLIANCES.	
280,727	Edison, T. A.	July 3, 1883	282,884	Guest, J. H	Aug. 7, 1883
280,850	Orton, B. F	July 10, 1883	283,544	Weston, E	
281,363	Heap, D. P		283,545	Weston, E	
281,412	Starr, E. T. and E. E	July 17, 1883	283,549	Weston, E	
281,576	Stieringer, L.	July 17, 1883	283,748	Bernstein, A	
281,799	Sheehy, R. J.		283,983	Edison, T. A.	
281,937	Spang, H. W	July 24, 1883	283,984	Edison, T. A	Aug. 28, 1883
282,157	Burton, G. D	July 31, 1883	283,985	Edison, T. A	
282,158	Burton, G. D		283,986	Edison, T. A	
232,317	Hinds, C. H	July 31, 1883	284,171	Boulton, W. H	Sept. 4, 1883
282,318	Hinds, C. II		284,247	Sheehy, R. J.	Sept. 4, 1883
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19. LIGHTS.—Systems and Appliances.—Continued.

284,420 Hedges, K. W Sept. 4, 1883 293,553 Bergmann, S Feb. 1284,505 Spang, H. W Sept. 4, 1883 293,579 Holzer, W Feb. 2284,605 Few ranil, A. W Sept. 11, 1883 294,412 Stanley, W, jr. Mar. 4 Sept. 11, 1883 294,412 Stanley, W, jr. Mar. 4 Sept. 13, 1883 294,505 Stanley, W, jr. Mar. 4 Sept. 13, 1883 295,598 Holzer, W Mar. 18 Sept. 13, 1883 295,598 Holzer, W Mar. 18 Sept. 13, 1883 295,598 Hickie, J. Apr. 8 Sept. 13, 1883 295,598 Hickie, J. Apr. 8 Sept. 13, 1883 295,598 Hickie, J. Apr. 8 Sept. 13, 1883 296,575 Adams, J. S. and F. U. Apr. 8 Apr. 22 Sept. 13, 1883 297,593 Hickie, J. Apr. 18 Apr. 22 Sept. 13, 1883 297,593 Hickie, J. Apr. 18 Apr. 22 Sept. 13, 1883 297,593 Adams, J. S. and F. U. Apr. 18 Apr. 22 Sept. 13, 1883 297,533 Adams, J. S. Apr. 22 Sept. 13, 1883 297,533 Adams, J. S. Apr. 22 Sept. 13, 1884 Apr. 23 Sept. 13, 1884 Apr. 23 Sept. 13, 1884 Sept. 14, 1884									
284,769 Spang, H. W. Sept. 4, 1883 29,3879 Holzer, W. Feb. 12 284,769 Bewtmall, A. W. Sept. 11, 1883 29,4412 Stanley, W., jr. Mar. 4 285,8589 Wan Depoele, C. J. Oct. 2, 1883 29,4412 Stanley, W., jr. Mar. 4 286,138 Topoele, C. J. Oct. 2, 1883 29,5398 Holzer, W. Mar. 18 287,341 Perkins, C. G. Oct. 23, 1883 29,6375 Adams, J. S. and F. U. Apr. 8 287,341 Perkins, C. G. Oct. 23, 1883 29,6375 Adams, J. S. and F. U. Apr. 8 287,341 Perkins, C. G. Oct. 23, 1883 29,7269 Klein, P. H., jr. Apr. 2 287,312 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,321 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,322 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,322 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,321 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,321 Perkins, C. G. Oct. 23, 1883 29,7333 Adams, J. S. Apr. 2 287,331 Edison, T. A. Oct. 30, 1883 29,7333 Adams, J. S. Apr. 2 287,331 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,331 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,433 Noveno, C. G. E. Ap	No.	Name,	DATE.	No.	NAME.	DATE.			
284,769 Spang, H. W. Sept. 4, 1883 29,3879 Holzer, W. Feb. 12 284,769 Bewtmall, A. W. Sept. 11, 1883 29,4412 Stanley, W., jr. Mar. 4 285,8589 Wan Depoele, C. J. Oct. 2, 1883 29,4412 Stanley, W., jr. Mar. 4 286,138 Topoele, C. J. Oct. 2, 1883 29,5398 Holzer, W. Mar. 18 287,341 Perkins, C. G. Oct. 23, 1883 29,6375 Adams, J. S. and F. U. Apr. 8 287,341 Perkins, C. G. Oct. 23, 1883 29,6375 Adams, J. S. and F. U. Apr. 8 287,341 Perkins, C. G. Oct. 23, 1883 29,7269 Klein, P. H., jr. Apr. 2 287,312 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,321 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,322 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,322 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,321 Perkins, C. G. Oct. 23, 1883 29,7332 Adams, J. S. Apr. 2 287,321 Perkins, C. G. Oct. 23, 1883 29,7333 Adams, J. S. Apr. 2 287,331 Edison, T. A. Oct. 30, 1883 29,7333 Adams, J. S. Apr. 2 287,331 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,331 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7334 Adams, J. S. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,332 Edison, T. A. Oct. 30, 1883 29,7433 Noveno, C. G. E. Apr. 2 287,433 Noveno, C. G. E. Ap	284 420	Hedges K. W	Sent. 4, 1883	293 553	Beromann S	Feb. 12 1884			
284,709 Van Depoele, C. J. Sept. 11, 1883 294,045 Hochhausen, W. Feb. 228,8505 Persential), A. W. Sept. 11, 1888 294,142 Stanley, W. jr. Mar. 4 288,387 Devlin, J. A. Oct. 2, 1883 294,697 Stieringer, I. Mar. 4 288,387 Devlin, J. A. Oct. 2, 1883 295,398 Holzer, W. Mar. 18 286,387 Devlin, J. A. Oct. 23, 1883 295,398 Holzer, W. Mar. 18 287,040 McOoy, J. A. Oct. 23, 1883 297,072 Durbrow, G. W. Apr. 28 287,315 Perkins, C. G. Oct. 23, 1883 297,072 Durbrow, G. W. Apr. 18 287,316 Perkins, C. G. Oct. 23, 1883 297,072 Durbrow, G. W. Apr. 19 287,317 Perkins, C. G. Oct. 23, 1883 297,333 Adams, J. S. Apr. 22 287,318 Perkins, C. G. Oct. 23, 1883 297,333 Adams, J. S. Apr. 22 287,331 Perkins, C. G. Oct. 23, 1883 297,333 Adams, J. S. Apr. 22 287,331 Perkins, C. G. Oct. 23, 1883 297,333 Adams, J. S. Apr. 22 287,341 Van Depoele, C. J. Oct. 23, 1883 297,334 Adams, J. S. Apr. 22 287,341 Van Depoele, C. J. Oct. 23, 1883 297,335 Adams, J. S. Apr. 22 287,341 Van Depoele, C. J. Oct. 23, 1883 297,336 Adams, J. S. Apr. 22 287,342 Edison, T. A. Oct. 30, 1883 297,336 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,337 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,337 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,337 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,433 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,433 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,433 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,433 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,433 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 298,535 Holore, W. G. Dec. 41, 1883 298,545 Holor				293,879	Holzer, W.	Feb. 19, 1884			
285,599 Van Depoele, C. J. Oct. 2, 1883 294,697 Sec. 1860, 187		Van Depoele, C. J			Hochhausen, W.	Feb. 26, 1884			
286,387 Devlin, J. A. Oct. 2, 1883 295,388 Ritche, J. J. Apr. 8 287,340 McCoy, J. A. Oct. 23, 1883 296,375 Ritche, J. J. Apr. 8 287,340 McCoy, J. A. Oct. 23, 1883 296,375 Ritche, J. J. Apr. 8 287,341 Perkins, C. G. Oct. 23, 1883 297,209 Durbrow, G. W. Apr. 18 297,341 Perkins, C. G. Oct. 23, 1883 297,320 Ritche, J. J. Apr. 8 297,331 Perkins, C. G. Oct. 23, 1883 297,323 Adams, J. S. Apr. 22 287,322 Perkins, C. G. Oct. 23, 1883 297,332 Adams, J. S. Apr. 22 287,322 Perkins, C. G. Oct. 23, 1883 297,333 Adams, J. S. Apr. 22 287,347 Van Depoele, C. J. Oct. 23, 1883 297,333 Adams, J. S. Apr. 22 287,347 Van Depoele, C. J. Oct. 23, 1883 297,334 Adams, J. S. Apr. 22 287,347 Van Depoele, C. J. Oct. 23, 1883 297,335 Adams, J. S. Apr. 22 287,347 Van Depoele, C. J. Oct. 23, 1883 297,336 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,336 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,337 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. Act. Clarke, C. L. Oct. 30, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. Act. Clarke, C. L. Nov. 6, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. Act. Clarke, C. L. Nov. 6, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. act. Clarke, C. L. Oct. 30, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. act. Clarke, C. L. Nov. 6, 1883 297,538 Edison, T. A. Act. Act. Clarke, C. L. Oct. 30, 1883 297,338 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. act. Clarke, C. L. Nov. 6, 1883 297,538 Edison, T. A. Act. Act. Clarke, C. L. Oct. 30, 1883 297,538 Edison, T. A. Act. Act. Clarke, C. L. Oct. 30, 1883 297,538 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. act. Clarke, C. L. Oct. 30, 1883 297,538 Edison, T. A. Act. Act. Clarke, C. L. Oct. 30, 1883 297,538 Edison, T. A. Act. Act. Clarke, C. L. Oct. 30, 1883 297,538 Edison, T. A. Act. Act. Clarke, C. L. Oct. 30, 1883 297,539 Edison, T. A. Act. Clarke, C. L. Oct. 30, 1883 297,569 Edison, T. A. Act. Act. Clarke, C. L. Oct. 30, 1883 298,569 E		Brewtnall, A. W.			Stanley, W., jr	Mar. 4, 1884			
286,347 Devlin, J. A.			Oct. 2, 1883						
287,010 McCoy, J. A.									
287,315 Perkins, C. G. Oct. 23, 1883 297,029 287,317 Perkins, C. G. Oct. 23, 1883 297,039 287,318 Perkins, C. G. Oct. 23, 1883 297,030 287,319 Perkins, C. G. Oct. 23, 1883 297,030 287,321 Perkins, C. G. Oct. 23, 1883 297,032 287,321 Perkins, C. G. Oct. 23, 1883 297,032 287,321 Perkins, C. G. Oct. 23, 1883 297,032 287,322 Perkins, C. G. Oct. 23, 1883 297,033 287,525 Edison, T. A. Oct. 30, 1883 297,033 287,522 Edison, T. A. Oct. 30, 1883 297,033 287,522 Edison, T. A. Oct. 30, 1883 297,033 287,522 Edison, T. A. Oct. 30, 1883 297,033 287,523 Edison, T. A. Oct. 30, 1883 297,033 287,525 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,533 287,525 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,525 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,525 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,524 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,525 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 297,581 287,622 Edison, T. A. And Clarke, C. L. Oct. 30, 1883 299,575 287,622 Edison, T. A. C.									
287,316 Perkins, C. G. Oct. 23, 1883 297,299 Klein, P. H., jr. Apr. 22 287,318 Perkins, C. G. Oct. 23, 1883 297,331 Adams, J. S. Apr. 22 287,319 Perkins, C. G. Oct. 23, 1883 297,332 Adams, J. S. Apr. 22 287,322 Perkins, C. G. Oct. 23, 1883 297,333 Adams, J. S. Apr. 22 287,322 Perkins, C. G. Oct. 23, 1883 297,334 Adams, J. S. Apr. 22 287,315 Edison, T. A. Oct. 30, 1883 297,335 Adams, J. S. Apr. 22 287,515 Edison, T. A. Oct. 30, 1883 297,335 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,337 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,337 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,337 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,338 Adams, J. S. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,433 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,433 Neveux, C. G. E. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,531 Edison, T. A. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,531 Edison, T. A. Apr. 22 287,525 Edison, T. A. Oct. 30, 1883 297,531 Edison, T. A. Apr. 22 288,139 Weston, E. Nov. 27, 1883 298,141 Weston, E. May 6 288,327 Weston, E. Nov. 27, 1883 298,141 Weston, E. May 6 289,327 Weston, E. Nov. 27, 1883 298,257 Weston, E. May 6 289,328 Holzer, W. Dec. 11, 1883 298,257 Weston, E. May 6 290,0405 Edmunds, H., jr. Dec. 18, 1883 300,052 Meston, E. May 6 290,0405 Edmunds, H., jr. Dec. 18, 1883 300,052 Meston, E. June 17 292,716 Weston, E. Jan. 20, 1884 300,052 Meston, E. June 17 292,718 Weston, E. Jan. 20, 1884 300,052 Meston, E. June 17 292,716 Weston, E. Jan. 20, 1884 300,052 Meston, E. June 17 292,716 Weston, E. Jan. 20, 1884 300,052 Meston, E. June 17 292,716 Weston, E. Jan. 20, 1884 300,052 Meston, E. June 17 282,165 Cheever, C. A. July 30, 1883 299,259 400,052 Edison, T. A. Apr. 29 283,352 Bergmann, S. Feb. 12, 1883 299,259 400,052 Edison, T. A. Cot. 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,					Durbrow, G. W	Apr. 15, 1884			
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294,842 Beile, C	987 775	Pairon W F	Oot 90 1009	207.622	Nowhung H E	Apr. 29, 1884			
201,012 Bullett, 9, 11 - 201,101 Bullett, 9, 11 - 201,101 Bullett, 9, 11 - 201, 101 Bullett, 9,						Apr. 29, 1884 Apr. 29, 1884			
296 096 Woehrle A C Apr. 15 1884 300 334 Whest C June 10	296,096	Woehrle, A. C	Apr. 15, 1884	300,334	Wüest, C	June 10, 1884			
296,866 Newbury, H. F Apr. 15, 1884				500,001		2001			
33. MAGNETO-ELECTRIC.									
280,439 Ball, R. E July 3, 1883 281,353 Edison, T. A July 17,	280 139	Ball R E	July 3 1882	281 353	Edison T A	July 17, 1883			
280,708 Bain, F July 3, 1883 281,416 Thomson, E July 17.		Bain, F	July 3, 1883		Thomson, E	July 17, 1883			
281,049 Freeman, W. P. July 10, 1883 281,904 McMahan, J. M. July 24	281,049	Freeman, W. P.	July 10, 1883	281,904	MeMahan, J. M	July 24, 1883			
281,052 Giles, J. E		Giles, J. E	July 10, 1883		Edwards, E. A	July 24, 1883			
281,351 Edison, T. A July 17, 1883 282,297 Field, S. D July 31	281,351	Edison, T. A	July 17, 1883	282,297	Field, S. D	July 31, 1883			

	33. A	IAGNETO-ELI	ECTRIC.—	-Continued.			
No.	NAME.	DATE.	No.	NAME.	DATE.		
282,446	De Ferranti, S. Z. and Thompson, A.	July 31, 1883	288,830	McTighe, T. J. and McConnell, J. T.	Nov. 20, 1883		
282,459	Knowles, E. R	July 31, 1883	288,915	Beeman, J. S.			
283,167 283,343	Thomson, E. J.	Aug. 14, 1883 Aug. 14, 1883	289,200 290,098	Weston, EOlmsted, J			
283,498	Loryea, A. L. and Palmer, C. H.	Aug. 21, 1883	290,199	Ball, C. M	Dec. 11, 1883		
283,624	Lister, J. T	Aug. 21, 1883	290,350	Paine, H. M	Dec. 18, 1883		
284,110 284,277	Zipernowsky, K. and Déri, M.—Cleveland, W. B.——————	Aug. 28, 1883	290,550 290,551	Du Shane, J.			
284,288	Elphinstone, W. B. F. and Vincent, C. W.	Sept. 4, 1883 Sept. 4, 1883	291,944	Easton, J. W	Jan. 15, 1884		
284,292	Gordon, J. E. H	Sept. 4, 1883	291,973	Ball, C. E			
284,357	Ball, C. E	Sept. 4, 1883	292,079	Wenström, J			
284,999 285,027	Bernstein, A	Sept. 18, 1883 Sept. 18, 1883	292,121 292,625	Knowles, E. R. and Idell, F. E-Buckley, W. F			
285,249	Fitch, F. K		292,719	Weston, E	Jan. 29, 1884		
285,457	Brush, C. F		293,432	Edison, T. A	Feb. 12, 1884		
285,548 $285,549$	Ball, C. E	Sept. 25, 1885	293,441 293,482	Fitch, F. K	Feb. 12, 1884		
285,691	Sheehy, R. J	Sept. 25, 1883	293,758	Lubke, A. E. G	Feb. 12, 1884		
286,241	Van Choate, S. F	Oct. 9, 1883	294,043	Hochhausen, W	Feb. 26, 1884		
286,242 286,247	Van Choate, S. F	Oct. 9, 1883	294,094 294,180	Thomson, E Ball, C. E	Feb. 26, 1884		
286,414	Wolcott, T Fuller, G. W	Oct. 9, 1883 Oct. 9, 1883	294,180	Rae, F. B. and Healy, C. L	Feb. 26, 1884		
286,415	Fuller, G. W	Oct. 9, 1883	294,458	Fuller, G. W	Mar. 4, 1884		
286,416	Fuller, G. W	Oct. 9, 1883	294,613	Gramme, Z. T	Mar. 4, 1884		
286,497 286,612	Stabler, J. P. Houston, E. J.	Oct. 9, 1883 Oct. 16, 1883	294,688 294,719	Sheehy, R. J	Mar. 4, 1884		
286,985	Woofley, L. G	Oct. 16, 1883	294,892	Lungren, C. M.	Mar. 11, 1884		
287,343	Van Depoele, C. J	Oct. 23, 1883	294,913	Richter, C			
287,512 287,513	Edison, T. AEdison, T. A		295,206 295,368	Stevens, H. M.——————————————————————————————————	Mar. 18, 1884		
287.514	Edison, T. A		295,534	Friek, F. G			
287,516	Edison, T. A		295,789	McTighe, J. J.	Mar. 25, 1884		
287,521 287,608	Fdison, T. ABain, F		296,569 296,857	Houston, E. J. and Thomson, E. Lubke, A. E. G			
287,609	Bain, F	Oct. 30, 1883	297,273	Lawson, J. W	Apr. 22, 1884		
287,610	Bain, F	Oct. 30, 1883	297,582	Edison, T. A	Apr. 29, 1884		
287,611 287,661	Bain, F Giles, J. E	Oct. 30, 1883	297,583 297,584	Edison, T. AEdison, T. A	Apr. 29, 1884		
287,678	Holbon, R		297,587	Edison, T. A	Apr. 29, 1884		
287,773	Nungesser, P. P.	Oct. 30, 1883	297,878	Van Depoele, C. J	Apr. 29, 1884		
287,774 287,800	Nungesser, P. P. Brackett, C. F	Nov. 6, 1883	298,431 298,954	Van Depoele, C. J. Edison, T. A	May 13, 1884		
288,042	Elphinstone, W. B. F. and Vin-	Nov. 6, 1883	298,955	Edison, T. A	May 20, 1884		
200 054	cent, C. W. Giles, J. E	31 4 1000	299,117	Diehl, P	May 27, 1884		
288,051 288,316	De Ferranti, S. Z. and Thomp-		299,551 300,535	Joel, H. F.	June 3, 1884		
	son, A.	,	300,615	Van Depoele, C. J Lannert, J. A	June 17, 1884		
288,818 288,829	Kimball, A. S	Nov. 20, 1883 Nov. 20, 1883	300,835 301,025	Blair, J. B	June 24, 1884 June 24, 1884		
76. MAGNETO-ELECTRIC.—Hand-Machines.							
000.00**	E4: T	T.I. 91 1000	202 1 72	D. W. I	Ton 00 1001		
282,287 285,799	Edison, T. A		292,153 $292,193$	Bowen, W. J Abdank-Abakanowicz, B	Jan. 22, 1884 Jan. 22, 1884		
287,873	Scribner, C. E	Nov. 6, 1883	293,160	Gilliland, E. T	Feb. 5, 1884		
290,709	Ross, J. Ś	Dec. 25, 1883	293,162	Gilliland, E. T	Feb. 5, 1884		
34. METERS.							
280,563	Bradley, C. S	July 3, 1883	286,445	Johnson, W. S	Oct. 9, 1883		
281,352	Edison, T. A	July 17, 1883	287,501	Bradley, C. S	Oct. 30, 1883		
282,428 282,447	Weston, E		289,862 291,405	Sheehy, R. J Russell, P. G	Jan. 1, 1884		
	son, A.	. ,	292,161	Eaton, A. K.	Jan. 22, 1884		
283,547	Weston, E	Aug. 21, 1883	293,426	Eaton, A. K Cushing, F. W	Feb. 12, 1884		
285,572	Clarke, C. L.	Sept. 25, 1883	293,435	Edison, T. A	Feb. 12, 1884		
		35. MORSE	REGISTE	IRS.			
296,641	Springer, L. C				Apr. 8, 1884		

36. MOTORS.

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No.	Name.	DATE.	No.	NAME.	Date.
280,559 283,546 284,255 285,547 285,857 286,873 289,540 289,541 289,918 291,636 291,650 292,930 293,556 293,923	Beckwith, S. H Weston, E Stockwell, L. W Ball, C. E Van Depoele, C. J Van Choate, S. F Jackson, C. A Jackson, C. A Kühmaier, F Stockwell, L. W Van Depoele, C. J Lubke, A. E. G Bradbury, W Van Hoevenbergh, H	Aug. 21, 1883 Sept. 4, 1883 Sept. 25, 1883 Oct. 2, 1883 Oct. 16, 1883 Dec. 4, 1883 Dec. 4, 1883 Dec. 11, 1883 Jan. 8, 1884 Jan. 8, 1884 Feb. 5, 1884 Feb. 12, 1884	293,929 294,066 294,095 294,165 294,717 295,454 297,867 298,130 298,507 298,922 300,154 300,648 300,827	Waters, W. T. Nystrom, J. W. Thomson, E. Van Depoele, C. J. Bacon, M. Sprague, F. J. Sperry, E. A. Stockwell, L. W. Saxe, C. A. Vetter, J. C. and Putnam, S. G. Starr, E. T. Sheridan, H. B. and Gorn, H. A. Adams, W.	Feb. 26, 1884 Feb. 26, 1884 Mar. 4, 1884 Mar. 18, 1884 Apr. 29, 1884 May 6, 1884 May 13, 1884
		38. RAILWA	Y-SIGNA	ALS.	
281,839 282,229 282,230 283,152 283,231 283,232 284,669 284,840 284,841 284,842 285,589 285,944 287,446 287,466 288,348 288,480 288,556 289,008 289,137 289,827	Cooper, C. A. Scott, C. A. Scott, C. A. Scott, C. A. Gassett, O. Gassett, O. Putnam, T. A. B. Putnam, T. A. B. Hall, A. W. Hall, A. W. Hall, A. W. L. Applegate, D. H. Le Grande, W. W. Pottinger, T. J. Lane, F. Phelps, W. P. Dummer, E. Long, M. W. Putnam, T. A. B. Gassett, O.	Nov. 13, 1883 Nov. 13, 1883 Nov. 13, 1883 Nov. 27, 1883 Nov. 27, 1883	290,209 290,338 291,095 291,566 291,556 291,590 291,721 10,434 10,435 292,687 292,743 294,030 294,116 295,427 297,438 298,209 298,913 300,238 300,833	Comstock, W. P., jr	Dec. 18, 1883 Jan. 1, 1884 Jan. 1, 1884 Jan. 8, 1884 Jan. 8, 1884 Jan. 8, 1884 Jan. 8, 1884 Jan. 29, 1884 Jan. 29, 1884 Jan. 29, 1884 Jan. 29, 1884 Feb. 12, 1884 Feb. 26, 1884 Mar. 18, 1884 Apr. 22, 1884 May 6, 1884 May 6, 1884 Jan. 20, 1884 Jan. 18, 1884
		39. REC	ORDERS.		
280,616 284,755 287,291 287,401 287,649	Harris, W. P. Pidgin, C. F. and Leonard, F. H., jr. Johnson, A. M. Ahearn, T. Enos, J. A.	Oct. 30, 1883	293,828 294,371 298,341 299,328 300,490	Weiss, C. W.——————————————————————————————————	Feb. 19, 1884 Mar. 4, 1884 May 13, 1884 May 27, 1884 June 17, 1884
		40. REGU	LATORS.		
281,349 281,350 281,579 282,187 283,155 283,548 285,527 285,528 286,325 286,834 286,841 287,345 287,511 287,565 288,315	Edison, T. A. Edison, T. A. Storer, G. W. Giel, F. S. Sheehy, R. J. Weston, E. Van Depoele, C. J. Van Depoele, C. J. Mather, R. H. Levy, M. Levy, M. Parkhurst, E. B. Van Depoele, C. J. Edison, T. A. Murdock, G. J. De Ferranti, S. Z. and Thompson, A.	July 17, 1883 July 17, 1883 July 31, 1883 Aug. 14, 1883 Aug. 21, 1883 Sept. 25, 1883 Oct. 9, 1883 Oct. 16, 1883 Oct. 16, 1883 Oct. 16, 1883 Oct. 23, 1883 Oct. 30, 1883 Oct. 30, 1883	288,318 288,393 288,963 289,324 289,325 289,326 290,025 290,412 291,141 291,209 291,445 291,566 292,382 292,397 292,691 292,715	Edison, T. A Arnold, C. R. Beeman, J. S. Taylor, W., and King, F. Weston, E. Weston, E. Weston, E. Freeman, W. P. Giles, J. E. Bradley, C. S. Lever, C. Weston, E. Van Depoele, C. J. Bain, F. Stockwell, L. W. Amet, E. H. Sellon, J. S. Weston, E.	Nov. 13, 1883 Nov. 20, 1883 Nov. 27, 1883 Nov. 27, 1883 Dec. 11, 1883 Dec. 18, 1883 Jan. 1, 1884 Jan. 1, 1884 Jan. 8, 1884 Jan. 8, 1884 Jan. 22, 1884 Jan. 22, 1884 Jan. 22, 1884 Jan. 29, 1884

40. REGULATORS.—Continued.							
No.	Name.	Date.	No.	NAME.	Date.		
292,721 294,038 294,039 294,040 294,041 294,169 294,170 294,307	Weston, E Hochhauseu, W Hochhausen, W Hochhausen, W Waterhouse, A. G Waterhouse, A. G Buckingham, C. L	Feb. 26, 1884 Feb. 26, 1884 Feb. 26, 1884 Feb. 26, 1884 Feb. 26, 1884 Feb. 26, 1884	295,552 296,799 297,866 298,550 298,956 300,420 301,027 301,028	Hochhausen, W Thomson, E Sperry, E. A Burke, C. G Edison, T. A Watson, J. E Weston, E Weston, E	Apr. 15, 1884 Apr. 29, 1884 May 13, 1884 May 20, 1884 June 17, 1884 June 24, 1884		
	4.	I. RELAYS A	ND SOUN	DERS.			
284,354 286,917 286,955	Bailey, H. L	Sept. 4, 1883 Oct. 16, 1883 Oct. 16, 1883	288,881 289,285 300,269	Smith, W. C Maloney, J. A Lamar, J. S	Nov. 20, 1883 Nov. 27, 1883 June 10, 1884		
		42. REP	EATERS.				
286,107	Athearn, W. E				Oct. 2, 1883		
		43. RHE	OSTATS.				
283,138 285,778	O'Harra, G. WAdams, W	Aug. 14, 1883 Oct. 2, 1883	297,324 298,073	Weston, E			
44. SEPARATORS.							
281,782 282,073 282,131 285,523 288,068 289,545 290,182 290,259	Moore, C. E. Greve, H. Thompson, H. M. Tanner, W. J. Kuhnmünch, J. Mac Eachran, D. Hastings, E. B. Molloy, B. C.	July 31, 1883 July 31, 1883 Sept. 25, 1883 Nov. 6, 1883	292,096 294,021 296,068 298,663 299,259 299,700 300,950	Carter, G. W. L. Faber, C. Rouleau, F. V. Bonnett, C. P. Pike, E. Van Derveer, M. T. and Hegeman, J. Cassel, H. R.	Jan. 15, 1884 Feb. 26, 1884 Apr. 1, 1884 May 13, 1884 May 27, 1884 June 3, 1884 June 24, 1884		
	,	71. SW	ITCHES.				
290,845	Breckenridge, H. W				Dec. 25, 1883		
		53. TELEGR	APH-POI	LES.			
282,489 289,320 290,752 291,435	Breen, T	Aug. 7, 1883 Nov. 27, 1883 Dec. 25, 1883 Jan. 1, 1884	295,905 297,182 298,975	Brott, G. F.——————————————————————————————————	Apr. 22, 1884		
45. TÉLEGRAPHS.							
284,297 284,481	Hartwell, N. W.		286,282 300,034	Delany, P. BVander Weyde, P. H	Oct. 9, 1883 June 10, 1884		
	4	6. TELEGRAP	HS.—Aut	POMATIC.			
283,665 289,173 289,205 292,607 293,110	Rogers, J. W Taylor, T. F Anderson, R Wilson, M. H Taylor, T. F	Nov. 27, 1883 Nov. 27, 1883 Jan. 29, 1884	293,111 293,112 293,974 295,219 296,376	Taylor, T. F	Feb. 19, 1884 Mar. 18, 1884		

		47. TELEGR	APHS.—I	DIAL.	
No.	NAME.	DATE.	No.	NAME.	DATE.
285,805	Fiske, B. A	Oct. 2, 1883	295,855	Burke, C. G	Mar. 25, 1884
		48. TELEGRA	PHS.—Di	UPLEX.	
284,498 286,279 286,280 286,867	Smith, G. and Taylor, T. F Delany, P. B	Oct. 9, 1883 Oct. 9, 1883	291,096 291,097 291,318 300,781	Selden, C	Jan. 1, 1884 Jan. 1, 1884
	'	49. TELEGRA	PHS.—Dy	TNAMO.	
282,294 282,295	Field, S. D Field, S. D	July 31, 1883 July 31, 1883	282,296 288,786	Field, S. D. Field, S. D.	July 31, 1883 Nov. 20, 1883
		50. TELEGR	APHS.—I	Fire.	,
280,506 280,536 280,906 281,680 283,944 284,527 285,983 285,983 286,393 287,757 288,107 288,536 288,570	Pearce, F. and Jones, J. Vansize, W. B. Buell, C. E. Frank, C. H. Ahearn, T. Wilson, J. C. Rogers, E. Buell, C. E. Finch, R. S. Copeland, F. A. Dyer, R. N. Pearce, F. Wilson, J. C. and Davis, M. G. Hess, A. T	July 3, 1883 July 10, 1883 July 24, 1883 Aug. 28, 1883 Sept. 4, 1883 Sept. 18, 1883 Sept. 25, 1883 Oct. 2, 1883 Oct. 9, 1883 Oct. 30, 1883 Nov. 6, 1883 Nov. 13, 1883	289,869 290,302 292,311 294,008 294,308 295,759 296,874 296,875 298,945 299,036	Spelman, P. H Wilson, J. C. Hinton, J. R. H Buell, C. E Buell, C. E Henry, J. C Hill, J Porter, M. D Porter, M. D Carter, C. H Taylor, G.W., Cox, A. R., Brown, W. C., and Sutherland, J. N. O'Sullivan, M. J Fenner, H. N	Dec. 18, 1883 Jan. 22, 1884 Feb. 26, 1884 Feb. 26, 1884 Mar. 18, 1884 Mar. 25, 1884 Apr. 15, 1884 Apr. 15, 1884 Apr. 15, 1884 May 20, 1884 May 20, 1884 May 27, 1884
	51	. TELEGRAP	HS.—Mui	TIPLEX.	
281,339 286,273 286,274 286,275 286,276	Calahan, E. A. and Delany, P. B Delany, P. B Delany, P. B Delany, P. B Delany, P. B	Oct. 9, 1883 Oct. 9, 1883 Oct. 9, 1883	286,277 286,278 286,281 297,540	Delany, P. B Delany, P. B Delany, P. B Smith, G	Oct. 9, 1883 Oct. 9, 1883
		4. TELEGRAI	PHS.—PRI	INTING.	
281,788 285,709 285,710 286,667 286,977 287,265 287,266 290,557 290,613 290,635 291,705 292,966	Ostrogovich, F. Van Hoevenbergh, H. Van Hoevenbergh, H. Wirsching, A. Van Hoevenbergh, H. Field, S. D. Vansize, W. B. and Buckingham, C. L. Field, S. D. Field, S. D. Van Hoevenbergh, H.	Sept. 25, 1883 Sept. 25, 1883 Oct. 16, 1883 Oct. 23, 1883 Oct. 23, 1883 Oct. 23, 1883 Oct. 23, 1883 Dec. 18, 1883 Dec. 18, 1883 Dec. 18, 1883	293,922 293,924 293,925 293,926 293,927 293,928 293,059 295,644 300,341 300,417 300,859	Van Hoevenbergh, H Field, S. D Johnson, A. F McCausland, W. J Buckingham, C. L. and Vansize, W. B. Vansize, W. B. and Buckingham, C. L. Field, S. D	Feb. 19, 1884 Feb. 19, 1884 Feb. 19, 1884 Feb. 19, 1884 Feb. 19, 1884 Feb. 19, 1884 Mar. 25, 1884 June 17, 1884 June 17, 1884
	55.	TELEGRAPH	IS.—Quae	DRUPLEX.	
280,753 281,117 281,118 281,249 283,995	Muirhead, A. Muirhead, A. Muirhead, A. and Winter, G. K. D'Infreville, G. Gardanier, G. W	July 10, 1883 July 10, 1883 July 17, 1883	289,301 291,236 293,956 297,186 298,571	Nicholson, H. C. Smith, G. Eils, B. E. J. Smith, G. Gardanier, G. W.	Jan. 1, 1884 Feb. 19, 1884 Apr. 22, 1884

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	56.	TELEGRAPH	S.—RAILV	WAY-CAR.	
No.	Name.	DATE.	No.	NAME.	DATE.
286,268	Cowell, E. R. E	Oct. 9, 1883	290,602	Pattyson, W. D. C	Dec. 18, 1883
	57. TE	LEPHONIC TE	ELEGRAI	PHS.—Calls.	
280,451 280,948 281,450 281,614 283,354 283,448 283,626 284,003 284,348 285,342 288,089 288,449 288,691	Clay, H Ohl, P. C Cary, J. H Cary, J. H Nichols, W Wilson, J. C Lockwood, T. D Gray, E. and Pope, F. L White, L. S Cary, J. H Mather, T. W Kinsman, J. H Carty, J. J.	Sept. 4, 1883 Sept. 18, 1883	289,834 292,542 292,570 292,999 293,938 295,913 296,588 297,148 297,909 298,383	Herzog, F. B. Crossley, L. J., Emmott, W. and Harrison, J. F. Oram, J. M., Sutton, H. M. and Garrett, H. Fairbanks, L. S. Boyd, D. Dudley, W. J. Lockwood, T. D. McFall, E. H. Bentley, E. M. Howes, A. P.	Apr. 1, 1884 Apr. 1, 1884 Apr. 8, 1884 Apr. 22, 1884 Apr. 29, 1884
•	58. TEL	EPHONIC TEI	LEGRAPI	HS.—Details.	
281,000 292,022	Batchelor, J. F	July 10, 1883 Jan. 15, 1884	293,136 297,732	Benjamin, P	Feb. 5, 1884 Apr. 29, 1884
	59. TELI	EPHONIC TEI	LEGRAPI	IS.—ELECTRIC.	
280,365 280,580 281,895 282,867 282,969 283,062 283,123 285,102 286,923 287,169 287,169 287,490 288,017 288,215 290,980 291,311 291,312 291,472 291,866 292,203 292,203 292,203 292,203	Dunand, A Clay, H Rogers, J. H Lockwood, T. D Eckert W. H. and Seely, J. A Egan, C Blake, F., jr Lockwood, W. C Berliner, E Haskins, C. D Reynolds, C. C Rogers, J. H Wilson, E. L Clay, H Dolbear, A. E Drawbaugh, D Drawbaugh, D Drawbaugh, D Drawbaugh, D Drawbaugh, D Berliner, E Cheever, J. H Eckert, W. H Waite, H. E Mehren, J. F	July 17, 1883 July 24, 1883 Aug. 7, 1883 Aug. 74, 1883 Aug. 14, 1883 Aug. 14, 1883 Oct. 16, 1883 Oct. 23, 1883 Oct. 23, 1883 Oct. 30, 1883 Nov. 6, 1883 Nov. 13, 1883 Dec. 25, 1883 Jan. 1, 1884 Jan. 1, 1884 Jan. 15, 1884 Jan. 22, 1884 Jan. 22, 1884 Jan. 22, 1884 Jan. 22, 1884	292,881 293,561 295,741 295,742 295,805 295,806 295,806 296,421 296,593 296,676 297,168 297,578 297,578 297,578 298,286 298,676 298,676 298,677 298,923 299,073 299,968 300,422	Ware, F Buck, H. C Drawbaugh, D Drawbaugh, D Randall, C. A Randall, C. A Randall, C. A Maloney, J. A Maloney, J. A Chadwick, S Gillett, W Rogers, J. H Bogers, J. H Drawbaugh, D Drawbaugh, D Drawbaugh, D Clay, H Drawbaugh, G. W Waite, H. E Waite, H. E Waite, H. E Husbands, J. D Torre, F. D West, W. A	Feb. 12, 1884 Mar. 25, 1884 Mar. 25, 1884 Mar. 25, 1884 Mar. 25, 1884 Apr. 8, 1884 Apr. 15, 1884 Apr. 15, 1884 Apr. 22, 1884 Apr. 22, 1884 Apr. 29, 1884 Apr. 29, 1884 Apr. 29, 1884 Apr. 29, 1884 May 13, 1884 May 13, 1884 May 20, 1884 May 20, 1884 May 20, 1884 June 10, 1884
	60. TELF	EPHONIC TEL	EGRAPE	IS.—Magnetic.	
280,800 281,240 281,414 286,737 286,875 286,876 287,742 287,743 287,896 289,309 290,978 290,979	Crossley, L. J Cheever, J. H Stearns, J. M., jr Shepherd, G. R Waite, H. E Waite, H. E Waite, H. E Waite, H. E. Waite, H. E. Bartlett, S. H. and Bartlett, S. H Bartlett, S. H. and Waite, H. E Robertson, J. H Drawbaugh, D Drawbaugh, D	July 17, 1883 July 17, 1883 Oct. 16, 1883 Oct. 16, 1883 Oct. 30, 1883 Oct. 30, 1883 Nov. 6, 1883 Nov. 27, 1883 Dec. 25, 1883	291,684 291,802 292,335 292,602 293,154 295,804 296,420 297,166 297,470 298,783 298,924 299,074	Cheever, J. H Sutton, L. W., jr Lockwood, T. D. and Lane, T.W Waite, H. E Drawbaugh, D Randall, C. A Maloney, J. A Strangways, H. B. T Scribner, C. E Waite, H. E Husbands, J. D	Jan. 8, 1884 Jan. 22, 1884 Jan. 29, 1884 Feb. 5, 1884 Mar. 25, 1884 Apr. 8, 1884 Apr. 22, 1884 Apr. 22, 1884 Apr. 29, 1884 May 20, 1884

61. TELEPHONIC TELEGRAPHS.—MECHANICAL.

No.	NAME.	DATE.	No.	NAME.	DATE.
281,406 281,407 285,004 285,269 286,680 288,366 288,835 289,620	Selden, C.————————————————————————————————————	Oct. 16, 1883 Nov. 13, 1883 Nov. 20, 1883	291,094 292,858 294,238 296,230 296,330 298,479 300,713	Selden, C Rogers, J. H Huston, H. E Seligman, H. and E Gilliland, J. F Kurtz, A. B Kundson, A. A	Feb. 5, 1884 Feb. 26, 1884 Apr. 1, 1884 Apr. 8, 1884 May 13, 1884
	77. TELEPHON	IC TELEGRA	PHS.—RE	LAYS AND REPEATERS.	
287,111 287,449	Drawbaugh, D	Oct. 23, 1883 Oct. 30, 1883	290,898 297,724	Lockwood, T. D	
	64. TEL	EPHONIC TE	LEGRAP	HS.—Systems.	
280,351 280,662 280,663 280,707 281,381 281,413 281,478 281,613 281,741 282,699 282,791 283,312 283,312 283,312 283,312 283,927 284,595 284,595 284,908 285,670 286,518 287,300 287,301 287,350 287,301 287,356 287,356 288,320 288,627 288,908 288,909 288,909 289,178 289,179	Clay, II Perrin, T. J Perrin, T. J Anders, G. L Loring, C. T Stearns, J. M., jr Farnham, I. H Cardwell, G. A Warner, J. C Brock, W. M Snell, F. H Busteed, R Wilson, C. H Firman, L. B Belcher, W. A O'Donel, I. M Scribner, C. E Warner, E. P Barrett, J. P Barrett, J. P Scribner, C. E Scribner, C. E Fenn, J. E Phelps, G. M., jr Wilkins, G. A Durant, G. F Lanc, T. W Lane, T. W Lane, T. W Coram, J. M Ohly, C. H Eckert, E. A. Eckert, W. H. and Seely, J. A Wright, C. D. and Fisher, C. A Tregurtha, J Tregurtha, J Tregurtha, J	July 3, 1883 July 3, 1883 July 3, 1883 July 17, 1883 July 24, 1883 Ang. 7, 1883 Ang. 7, 1883 Ang. 14, 1883 Ang. 28, 1883 Ang. 28, 1883 Ang. 28, 1883 Ang. 28, 1883 Sept. 11, 1883 Oct. 23, 1883 Oct. 20, 1883 Nov. 20, 1883	289,180 289,321 289,353 289,539 290,307 290,730 291,915 292,866 293,118 293,161 293,171 293,196 293,206 294,297 294,336 294,482 295,223 295,365 295,36	Tregurtha, J. Tregurtha, J. Loring, C. T. Jackson, C. A. Allen, C. E. Bartelous, J. V. M. Lockwood, T. D. Rogers, J. H. Scribner, C. E. Scribner, C. E. Townsend, L. Gilliand, E. T. Haskins, C. D. Scribner, C. E. Scribner, C. E. Scribner, C. E. Scribner, C. E. Wilsou, E. M. Hibbard, A. S. Wilkins, G. A. Scribner, C. E. Lytle, F. M. and McCoy, J. A. Blake, F. Connolly, T. A. Davis, A. G. Fish, G. W. Cook, F. B. and Graves, F. F. Vail, T. N. Shaver, G. F. Doolittle, T. B. Vail, T. N. Herzog, F. B. Stewart, JN. Warth, N. G. Warner, J. C. and E. P. Haskins, C. H. Scribner, C. E. Scribner, C. E.	Nov. 27, 1883 Nov. 27, 1883 Nov. 27, 1883 Dec. 4, 1883 Dec. 18, 1883 Dec. 25, 1884 Feb. 5, 1884 Feb. 26, 1884 Feb. 26, 1884 Feb. 26, 1884 Mar. 18, 1884 May 13, 1884 May 20, 1884 May 20, 1884 May 20, 1884 May 27, 1884 May 3, 1884 May 27, 1884 May 3, 1884 May 27, 1884 May 3, 1884
	66.	THERAPEUT	TCS.—Boi	DY-WEAR.	
285,977 287,096	Dennis, J. W Carr, J. E	Oct. 2, 1883 Oct. 23, 1883	287,170 293,679	Roovers, A. and AStark, W. F	Oct. 23, 1883 Feb. 19, 1884
	67.	THERAPEUT	ICS.—Eli	ECTRODES.	
282,431 282,561	Andrews, A. W. K. and Teed, C. R. Palmer, F. A		285,852 285,853 285,854	Stilwell, R Stilwell, R Stilwell, R	Oct. 2, 1883 Oct. 2, 1883 Oct. 2, 1883

	**************************************	68. THER	MOSTAT	S.	
No.	NAME.	DATE.	No.	NAME.	DATE.
281,877 281,884 285,676 292,992	Hewitt, R., jr- Johnson, W. S- Prentiss, F. H. and Tilden, J. A- Cornelius, O. H. P. and Tur- ner, G. H.	July 24, 1883 July 24, 1883 Sept. 25, 1883 Feb. 5, 1884	294,405 295,760 296,058 298,121	Rider, A. K ——————————————————————————————————	Mar. 25, 1884 Apr. 1, 1884
	83.	TRANSMISSI	ON OF I	POWER.	
289,197 289,198	Weston, E	Nov. 27, 1883 Nov. 27, 1883	300,443	Buell, C. E	June 17, 1884
		69. TRANS	MITTER	S.	
283,716 283,736 287,914 295,074	Lyon, H Johnson, W. S Dement, M. H Stone, R. C	Aug. 21, 1883 Aug. 21, 1883 Nov. 6, 1883 Mar. 11, 1884	295,075 299,949 300,353	Stone, R. C Bishoprick, N. J Farrar, J. N. and Morse, C. W_	Mar. 11, 1884 June 10, 1884 June 17, 1884
	7	70. UNDERGR	OUND L	INES.	
281,220 281,722 282,010 282,833 283,807 284,100 284,139 284,655 284,794 284,655 285,267 286,938 286,940 286,940 286,941 286,942 286,940 286,947 286,947 286,948 286,949 287,237 287,533 287,533 288,002 287,533 288,002 288,311 288,311 288,311 288,311 288,555 285,267 286,940 286,940 286,940 286,940 286,940 286,947 286,950 287,532 287,533 288,002 288,311 288,555 288,629 288,790	Rafer, E. E. and E. G Smith, F. A Du Shane, J Hendley, W Hendley, W Patterson, W. R Putnam, T. A. B Bannister, L Omensetter, E Waring, R. S Waring, R. S Waring, R. S Waring, R. S How, W. J Green, I. M. and Birch, J. P Lenderoth, W O'Reilly, A. J Allen, S. M Hyde, J. B Hyde, J. B How, W. S Orvis, O. D. and Adams, N. B Speed, F. M Martin, J. F Clark, E Du Bois, J. S Goddard, C Goddard, C Grown, F. W Detrick, C Cobb, H. B Cryer, B. A Gilman, C. C Giles, J. E Strohm, S. D	Oct. 16, 1883 Oct. 16, 1883 Oct. 16, 1883 Oct. 16, 1883 Oct. 16, 1883	290,414 290,415 290,415 291,317 291,371 291,478 291,798 291,849 291,849 293,214 293,533 293,632 293,688 294,536 294,536 294,537 294,536 294,537 294,541 294,541 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,545 294,550 294,550 294,536 294,550 294,571 294,545 294,545 294,545 294,545 294,545 294,546 294,547 294,548 294,549 294,550 294,571 294,548 294,550 294,571 294,548 294,550 294,571 294,585 294,586 10,458 10,459 295,334 295,710 296,146 296,185 296,774 297,179	Goebel, C. H. Field, S. D. Mayall, T. J. Horner, J. W. Starr, E. T. Howson, H. Dorsett, D. H., Morris, J. E. and Williams, B. Averell, W. W. Smith, T. L. Cobb, H. B. Trask, C. H. Cobb, H. B. Patterson, W. R. Waring, R. S.	Mar. 4, 1884 Mar. 1, 1884 Mar. 1, 1884 Mar. 11, 1884 Mar. 18, 1884 Apr. 1, 1884

70. UNDERGROUND LINES.—Continued.

No.	NAME.	DATE.	No.	NAME.	Date.	
297,927 297,929 298,020 299,206 299,449	Goebel, C. H Goebel, C. H Page, J. H Deavs, C Woodward, J. S	May 6, 1884 May 27, 1884	299,992 300,005 300,210 300,470	Magner, W Patterson, W. R Campbell, A Hathaway, M. P	June 10, 1884 June 10, 1884 June 10, 1884 June 17, 1884	
84. VALVE CONTROLLERS.						
297,937 300,338	Johnson, W. SAmet, E. H	Apr. 29, 1884 June 17, 1884	301,059	Johnson, W. S	June 24, 1884	

APPENDIX No. III.

PART II.

CONSISTING OF AN

NUMERICAL AND CHRONOLOGICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1883, to June 30, 1884, inclusive, giving names of Inventors, numbers and dates, of Patents, and the sub-class to which each belongs.



NUMERICAL INDEX

or

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1883, TO JUNE 30, 1884.

No.	Name.	CLASS.	DATE.
280,340	Bernstein, A	Lights, incandescent	July 3, 188
280,341	Bernstein, A	do	July 3, 188
280,351	Glay, H	Telephonic telegraphs, systems	July 3, 188
280,365	Dunand, A	Telephonic telegraphs, electric	July 3, 188
280,366	Dunham, T. H	Conductors	July 3, 188
280,426	Wheeler, W	Lights, are	July 3, 1883
280,439	Ball, R. É		July 3, 188
280,451	Clay, H	Telephonic telegraphs, calls	July 3, 188
280,472	Helman, O. A	Alarms, burglar	July 3, 1883
280,474	Herrmann, L. A. F	Conductors	July 3, 188
280,506	Pearce, F. and Jones, J.	Telegraphs, fire	July 3, 188
280,518	Rogers, J. W.	Conductors	July 3, 188
280,521	Sawyer, W. H	do	July 3, 1883
280,536	Vansize, W. B.	Telegraphs, fire	July 3, 1883
280,559	Beckwith, S. H	Motors	July 3, 1883
280,563	Bradley, C. S.	Meters	July 3, 1883
280,578	Chester, W. F	Alarms, burglar	July 3, 1883
280,580	Clay, H	Telephonic telegraphs, electric	July 3, 1883
280,616	Harris, W. P.	Recorders	July 3, 1883
280,662	Perrin, T. J	Telephonic telegraphs, systems	July 3, 1883
280,663	Perrin, T. J.	do	July 3, 1883
280,677	Senour, F. L	Lights, are	
280,689	Towan, J. H	Gas-lighting	July 3, 1883
280,707	Anders, G. L	Telephonic telegraphs, systems	
280,708	Bain, F	Magneto-electric	July 3, 1883
280,709	Bain, F	Lights, are	July 3, 1883
280,715	Buell, C. E	Clocks	July 3, 1883
280,727	Edison, T. A	Lights, systems and appliances	July 3, 1883
280,753	Muirhead, A	Telegraphs, quadruplex	July 3, 1883
280,763	Rabl, F.	Lights, are	July 3, 1883
280,764	Rafer, E. E. and E. G	Underground lines	July 3, 1883
280,800	Crossley, L. J	Telephonic telegraphs, magnetic	July 10, 1883
280,838	Loomis, B.	Applications, general	July 10, 1883
280,850	Orton, B. F	Lights, systems and appliances	July 10, 1885
280,869 280,882	Smith, F. A	Underground lines	July 10, 1883
280,906	Tichenor, A. C	Applications, general	July 10, 1883 July 10, 1883
280,916	Buell, C. E	Telegraphs, fire	
280,919	Drake, C. C DuShane, J		July 10, 1883
280,933	Karshner, W. W.	Underground lines	July 10, 1883 July 10, 1883
280,947	Ohl, P. C	Batterics, galvanic	
280,948	Ohl, P. C	Telephonic telegraphs, calls	July 10, 1883
281,000	Batchelor, J. F	Telephonic telegraphs, details	July 10, 1883
281,048	Frasch, H	Lights, are	July 10, 1883
281,049	Freeman, W. P.	Magneto-electric	July 10, 1883
281,052	Giles J E	do	July 10, 1883
281,064	Hendley, W	Underground lines	July 10, 1883
281,097	McGinnis, W. T	Induction-coils	July 10, 1883
281,117	Muirhead, A	Telegraphs, quadruplex	July 10, 1883
281,118	Muirhead, A. and Winter, G. K	do	July 10, 1883
281,156	Starr, E. T	Batteries, secondary	July 10, 1883
281,175	Brush, C. F	Batteries, secondary, applications	July 10, 1883
231,176	Brush, C. F	do	July 10, 1883
281,202	Phelps, L. J.	Circuit-closers	July 10, 1883
281,220	Hendley, W.	Underground lines	July 10, 1883
281,223	Rogers, H. D.	Conductors	July 10, 1883
231,224	Goodsell, B. H., Adamson, C. and Hering, C.O.	Applications, tools and machines	July 10, 1883
281,229	Ball, C. M	Lights, are	July 17, 1883
	Cheever, J. H	Telephonic telegraphs, magnetic	July 17, 1883

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No.	NAME.	CLASS,	DATE.
281,249	D'Infreville, G	Telegraphs, quadruplex	July 17, 1883
281,262	Gilbert, J. W. and Starr, E. T.	Batteries, galvanie	July 17, 1883
281,285	Moffitt, J. A	Lights, arc	July 17, 1883
281,339 281,345	Calahan, E. A. and Delany, P. B	Telegraphs, multiplex	July 17, 1883
281,349	Edison, T. A	Regulators	July 17, 1883 July 17, 1883
281,350		do	
281,351	Edison, T. A		
281,352	Edison, T. A	Meters	
281,353 281,362	Edison, T. A	Magueto-electric Kevs	July 17, 1883 July 17, 1883
281,363	Heap, D. P	Lights, systems and appliances	
281,387	Loring, C. T	Telephonic telegraphs, systems	July 17, 1883
281,406	Selden, C	Telephonic telegraphs, mechanical	July 17, 1883
281,407 281,412	Starr, E. T. and E. E	Lights, systems and appliances	July 17, 1883 July 17, 1883
281,413	Stearns, J. M., jr		July 17, 1883
281,414	Stearns, J. M., jr	Telephonic telegraphs, magnetic	July 17, 1883
281,416	Thomson, E	Magneto-electric	July 17, 1883
281,450	Cary, J. H		July 17, 1833
281,452 $281,471$	Chapman, T. L	Insulators ————————————————————————————————————	July 17, 1883
281,471	Farnham, I. H		July 17, 1883 July 17, 1883
281,560	Rogers, J. II		
281,576	Sticringer, L	Lights, systems and appliances	July 17, 1883
281,579	Storer, G. W		July 17, 1883
281,585	Wagner, G. G		
281,603 281,613	Cardwell, G. A	KeysTelephonic telegraphs, systems	July 17, 1883 July 17, 1883
281,614	Cary, J. H	Telephonic telegraphs, calls	July 17, 1883
281,672	Crocker, F. B., Curtis, C. G. and Wheeler, S. S	Locomotion	July 24, 1883
281,680	Frank, C. H	Telegraphs, fire	July 24, 1883
281,698	Keith, N. S		
281,722 281,723	Patterson, W. R.——————————————————————————————————	Underground lines Lightning-arresters	July 24, 1883 July 24, 1883
281,730	Ricketts, P. C.		
281,741	Warner, J. C		
281,782	Moore, C. E	Separators	July 24, 1883
281,788	Ostrogovich, F	Telegraphs, printing	
281,799 281,800	Sheehy, R. J	Lights, systems and appliances Lights, are	July 24, 1883 July 24, 1883
281,839	Cooper, C. A	Railway-siguals	July 24, 1883
281,841	Cowles, A. A		
281,859	Fox, E		
281,864	Gilpin, J. F		
281,877 281,884		Thermostatsdo	
281,891		Lights, are	
281,895	Lockwood, T. D.	Telephonic telegraphs, electric	July 24, 1883
281,904		Magneto-electric	
281,931		Annunciators	
281,937 281,985		Lights, systems and appliances Magneto-electric	
281,999	Hyde, J. B	Conductors	July 24, 1883
282,010	Putnam, T. A. B.	Underground lines	July 24, 1883
282,016	Van Benschoten, S. and Johnson, H. H	Annunciators	July 24, 1883
282,030 282,043		Lights, incandescent	
282,043		Gas-lighting Separators	
282,131	Thompson, H. M	do	July 31, 1883
282,157	Burton, G. D	Lights, systems and appliances	July 31, 1883
282,158	Burton, G. D.	Lagrantian	July 31, 1883
282,165 282,187		Locomotion	
282,107		Applications, general	
282,227	Richter, P	Gas-lighting	July 31, 1883
282,229	Scott, C. A	Railway-signals	July 31, 1883
282,230	Scott, C. A	Girouit alasawa	July 31, 1883
282,246 282,249	Wastinghouse G ir	Circuit-closers	July 31, 1883
282,250	Westinghouse, G., ir-	do	July 31, 1883
282,287	Edison, T. A	Magneto-electric, hand-machines	July 31, 1883
282,294	Field, S. D.	Magneto-electric, hand-machines Telegraphs, dynamo	July 31, 1883
282,295 282,296		do	
282,296	Field, S. D	Magneto-electric	July 31, 1883
282,317		Lights, systems and appliances	
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No.	NAME.	Class.	DATE.
282,318	Hinds, C. H	Lights, systems and appliances	July 31, 1883
282,319	Holbrook, Z. S.	Locomotion	July 31, 1883
282,396	Starr, E. T	Batteries, secondary	July 31, 1883
282,414 282,428	Van Depoele, C. J		
282,431	Weston, E	Therapeutics, electrodes	July 31, 1883 July 31, 1883
282,446	De Ferranti, S. Z. and Thompson, A	Magneto-electric	
282,447	De Ferranti, S. Z. and Thompson, A	Meters	
282,449	Dodge, T. H	Lightning-rods	July 31, 1883
282,459	Knowles, E. R.	Magneto-electrie	
282,460 282,461	Knowles, E. R.	Lights, incandescent	July 31, 1883
282,472	Swan, A	Lights, are Lights, incandescent	July 31, 1883 July 31, 1883
282,489	Breen, T	Telegraph-poles	
282,521	Holtzer, C. W	Lights, incandescent	Aug. 7, 1883
282,534	Knowles, E. R. and Idell, F. E	do	
282,561 282,562	Palmer, F. A		
282,634	Patee, T. H Hayes, P. S	Lightning-rods Batteries, galvanic	
282,680	Sparling, J. A	Conductors	
282,699	Brock, W. M	Telephonic telegraphs, systems	Aug. 7, 1883
282,784	Schlosser, E. F.	Batteries, galvanic	Aug. 7, 1883
282,791 282,795	Snell, F. H	Telephonic telegraphs, systems	
282,795	Starr, E. T White, L. S	Batteries, galvanic Gas-lighting	
282,822	Willard, C. A	Applications, general	
282,833	Bannister, L	Underground lines	
282,841	Busteed, R	Telephonic telegraphs, systems	
282,861	D' Humy, P. R. de F	Lights, incandescent	Aug. 7, 1883
282,867 282,879	Eckert, W. H. and Seely, J. A.	Telephonic telegraphs, electric Electrolysis	Aug. 7, 1883
282,884	Guest, J. H	Lights, systems and appliances	Aug. 7, 1883 Aug. 7, 1883
282,890	Hinds, C. H	Gas-lighting	Aug. 7, 1883
282,914	Martin, J. F	Conductors	
282,921	Plush, S. M	Lightning-arresters	Aug. 7, 1883
282,964	Delaplaine, J. L., Hendriekson, J. G. and Clamer, F. J.	Applications, general	Aug. 14, 1883
282,969	Egan, C	Telephonic telegraphs, electrie	Aug. 14, 1883
283,042	Thomas, W. M	Lights, are	Aug. 14, 1883
283,044	Turner, D. B	Conductors	Aug. 14, 1883
283,058	Arnheim, M	Applications, tools and machines	Aug. 14, 1883
283,062 283,073	Blake, F., jr	Telephonic telegraphs, electricAnnunciators	Aug. 14, 1883 Aug. 14, 1883
283,123	Lockwood, W. C	Telephonic telegraphs, electric	Aug. 14, 1883
283,138	O'Harra, G. W	Rheostats	Aug. 14, 1883
283,140	Pope, H. W	Conductors	Aug. 14, 1883
283,152	Scott, C. A	Railway-signals	Aug. 14, 1883
283,155 283,166	Sheehy, R. J	Regulators Lightning-rods	Aug. 14, 1883 Aug. 14, 1883
283,167	Thomson, E	Magneto-electrie	Aug. 14, 1883
283,168	Thomson, E		Aug. 14, 1883
283,186	Bain, F	do	Aug. 14, 1883
283,200	Brissett, II. R. and Howe, J.		Aug. 14, 1883
283,231 283,232	Gassett, O		Aug. 14, 1883 Aug. 14, 1883
283,270	Mott, S. D		Aug. 14, 1883
283,276	Pope, H. W		Aug. 14, 1883
283,295	Starr, E. T	Batteries, secondary	Aug. 14, 1883
283,303	Tirrell, J. P.	Circuit-closers	Aug. 14, 1883
283,312 283,334	Wilson, C. H Firman, L. B		Aug. 14, 1883 Aug. 14, 1883
283,343	Houston, E. J		Aug. 14, 1883
283,354	Nichols, W	Telephonic telegraphs, calls	Aug. 14, 1883
283,355	Orne, C. P.	Batteries, galvanie	Aug. 14, 1883
283,433	Stanley, H. D. and Doolittle, G.		Aug. 21, 1883
283,437 283,448	Thomson, EWilson, J. C		Aug. 21, 1883 Aug. 21, 1883
283,482	Haskins, C. D		Aug. 21, 1883
283,492	Kinsman, F. E	Cut-outs, thermal	Aug. 21, 1883
283,498	Loryea, A. M. and Palmer, C. H.	Magneto-electric	Aug. 21, 1883
283,544	Weston, E.	Lights, systems and appliances	Aug. 21, 1883
	Weston, E	do	Aug. 21, 1883
283,545		Alotore	
283,545 283,546	Weston, E	Meters	Aug. 21, 1883 Aug. 21, 1883
283,545 283,546 283,547 283,548	Weston, E Weston, E	Meters Regulators	Aug. 21, 1883 Aug. 21, 1883
283,545 283,546 283,547	Weston, E	Meters Regulators Lights, systems and appliances	Aug. 21, 1883

No.	Name.	CLASS.	DATE.
283,624	Lister, J. T	Magneto-electric	Aug. 21, 1883
283,626	Lockwood, T. D	Telephonie telegraphs, calls	Aug. 21, 1883
283,629	Maxim, H. S	Lights, are	
283,662	Richter, C	do	Aug. 21, 1883
283,665	Rogers, J. W	Telegraphs, automatie	Aug. 21, 1883
283,716 283,736	Lyon, H Johnson, W. S	Transmittersdo	Aug. 21, 1883
283,747	Belcher, W. A.	Telephonic telegraphs, systems	Aug. 21, 1883 Aug. 28, 1883
283,748	Bernstein, A	Lights, systems and appliances	Aug. 28, 1883
283,759	Daft, L	Locomotion	Aug. 28, 1883
283,760	Daft, L	Conductors	Aug. 28, 1883
283,761	Daft, L	Locomotion	Aug. 28, 1883
283,763 283,764	Delany, P. B	Conductors	Aug. 28, 1883
283,806	O'Donel, I. M	Telephonie telegraphs, systems	Aug. 28, 1883 Aug. 28, 1883
283,807	Omensetter, E	Underground lines	Aug. 28, 1883
283,912	McCarty, R. A. and Johnson, C. M.		Aug. 28, 1883
283,927	Scribner, C. E	Telephonic telegraphs, systems	Aug. 28, 1883
283,944	Ahearn, T	Telegraphs, fire	Aug. 28, 1883
283,983 283,984	Edison, T. A	Lights, systems and appliances	Aug. 28, 1883
283,984		do	Aug. 28, 1883 Aug. 28, 1883
283,986	Edison, T. A	do	Aug. 28, 1883
283,995	Gardanier, G. W.	Telegraphs, quadruplex	Aug. 28, 1883
284,003	Gray, E. and Pope, F. L	Telephonic telegraphs, calls	Aug. 28, 1883
284,031		Cut-outs, mechanical	Aug. 28, 1883
284,082	Spang, H. W	Lightning-rods	Aug. 28, 1883
284,094 284,098	Waring R S	Conductors	Aug. 28, 1883 Aug. 28, 1883
284,099	Waring, R. S	Underground lines	Aug. 28, 1883
284,100	Waring, R. S.	do	Aug. 28, 1883
284,102	Warner, E. P	Telephonic telegraphs, systems	Aug. 28, 1883
284,110	Zipernowsky, K. and Déri, M		Aug. 28, 1883
284,114		Indicators	Aug. 28, 1883
284,137 284,138	McElroy, W. J	Conductorsdo	Aug. 28, 1883 Aug. 28, 1883
284,139	McElroy, W. J	Underground lines	Aug. 28, 1883
284,171	Boulton, W. H		Sept. 4, 1883
284,216	Lytle, H. B		Sept. 4, 1883
284,226	Patterson, W. R		
284,247	Sheehy, R. J		
284,255 284,277	Stockwell, L. W	Magneto-electric	
284,288		do	
284,289	Fleming, J. A		
284,292	Gordon, J. E. H	Magneto-electric	Sept. 4, 1883
284,297	Hartwell, N. W.	Telegraphs	Sept. 4, 1883
284,342	Tompkins, C. T.	Batteries, secondary	Sept. 4, 1883
284,343 284,348		Telephonic telegraphs, calls	
284,354		Relays and sounders	
284,355	Bailey, H. L	Clocks	Sept. 4, 1883
284,357	Ball, C. E	Magneto-electrie	Sept. 4, 1883
284,365	Beidler, H. M	Car-brakes	
284,382 284,409	Clarke, C. L		
284,413	Green, I. M. and Birch, J. P		
284,420	Hedges, K. W.	Lights, systems and appliances	
284,423	Hollingshead, W. B	Conductors	Sept. 4, 1883
284,425	Huck, C	Conductors, anti-inductive	
284,426		D-11-	
284,480 284,481		Bells Telegraphs	Sept. 4, 1883 Sept. 4, 1883
284,481		Lights, are	Sept. 4, 1883
284,498	Smith, G and Taylor, T. F		Sept. 4, 1883
284,505	Spang, H. W.	Lights, systems and appliances	Sept. 4, 1883
284,508	Spurgeon, S. J.	Keys	Sept. 4, 1883
284,516		Gas-lighting	Sept. 4, 1883
284,527 284,577	Wilson, J. C		Sept. 4, 1883
284,578	Sweet, D. F		Sept. 4, 1883 Sept. 4, 1883
284,594	Barrett, J. P	Telephonic telegraphs, systems	Sept. 11, 1883
284,595	Barrett, J. P	do	Sept. 11, 1883
284,605	Burns, H. A.	Batteries, galvanie	Sept. 11, 1883
284,643		Underground lines	Sept. 11, 1883
284,655 284,668	Putnam T A R	Conductors	Sept. 11, 1883 Sept. 11, 1883
284,668	Tuthall, I. J. D	Conductors	Бери 11, 1000

NUMERICAL INDEX—ELECTRICITY.

No.	NAME.	Class.	Date.
284,669	Putnam, T. A. B	Railway-signals	Sept. 11, 1883
284,670		do	Sept. 11, 1883
284,714		Cut-outs, thermal	Sept. 11, 1883
284,715	Bernstein, A		Sept. 11, 1883
284,755	Pidgin, C. F. and Leonard, F. H., jr		Sept. 11, 1883
284,779	Van Depoele, C. J	Lights, systems and appliances	Sept. 11, 1883
284,784 284,794	Warren, H. J. and Packard, H. FAllen, S. M	Gas-lighting Underground lines	Sept. 11, 1883 Sept. 11, 1883
284,805	Brewtnall, A. W	Lights, systems and appliances	Sept. 11, 1883
284,808	Brown, E. H	Alarms, burglar	Sept. 11, 1883
284,840	Hall, A. W	Railway-signals	Sept. 11, 1883
284,841	Hall, A. W	do	Sept. 11, 1883
284,842	Hall, A. W	do	Sept. 11, 1883
284,854	Hyde, J. B	Underground lines	Sept. 11, 1883
284,855	Hyde, J. B	do	Sept. 11, 1883
284,862	Lackersteen, M. H McCormick, D. A	Applications, general	Sept. 11, 1883
284,878 284,908	Scribner, C. E	Annunciators	Sept. 11, 1883 Sept. 11, 1883
284,909		do	Sept. 11, 1883
284,915	Somers, G. E		Sept. 11, 1883
284,939	Bain, F	Lights, arc	Sept. 11, 1883
284,959	Halkyard, W.	Conductors	Sept. 11, 1883
284,970		do	
284,999	Bernstein, A	Magneto-electric	Sept. 18, 1883
285,004 285,008	Bowen, W. J.	Telephonic telegraphs, mechanical————Applications, tools and machines————	Sept. 18, 1883 Sept. 18, 1883
285,027	Gray, J	Magneto-electric	Sept. 18, 1883
285,066	Peckham, F. H., jr	Batteries, galvanic	Sept. 18, 1883
285,076	Rogers, E		
285,088	Van Wagenen, H. G	Clocks	Sept. 18, 1883
285,102	Berliner, E	Telephonic telegraphs, electric	Sept. 18, 1883
285,107	Bucker, R	Lights, arc	
285,245	Fenn, J. E	Telephonic telegraphs, systems	Sept. 18, 1883
285,249 285,267	Fitch, F. K How, W. S	Magneto-electric Underground lines	
285,269	Huston, H. E	Telephonic telegraphs, mechanical	Sept. 18, 1883 Sept. 18, 1883
285,327	Weaver, A. S.	Conductors	
285,334	Wiswall, A	Alarms, burglar	
285,342	Cary, J. H	Telephonic telegraphs, calls	Sept. 18, 1883
285,353	Finney, J. R	Locomotion	
285,445	Tibbits, J. B	Lights, are	Sept. 25, 1883
285,451 $285,457$	Brush, C. F	Magneto-electric	Sept. 25, 1883 Sept. 25, 1883
285,459	Buell, C. E		
285,494		Conductors	
285,523	Tanner, W. J.		
285,527	Van Depoele, C. J	Regulators	
285,528		do	
285,529	Van Depoele, C. J	Batteries, secondary	Sept. 25, 1883
285,547 $285,548$	Ball, C. E	Motors	Sept. 25, 1883 Sept. 25, 1883
285,549	Ball C E	do	Sept. 25, 1883
285,572	Clarke, C. L	Meters	Sept. 25, 1883
285,589	Doyle, W. L	Railway-signals	Sept. 25, 1883
285,602	Farmer, M. G	Batteries, secondary, applications	Sept. 25, 1883
285,615	Hannay, J. B		Sept. 25, 1883
285,657	Orvis, O. D. and Adams, N. B.		
285,670 285,672	Phelps, G. M., jr		
285,673		do	
285,676	Prentiss, F. H. and Tilden, J. A.		
285,682	Ronsseau, D.	Gas-lighting	Sept. 25, 1883
285,691	Sheehy, R. J	Magneto-electric	Sept. 25, 1883
285,709	Van Hoevenbergh, H		Sept. 25, 1883
285,710 $285,714$		Pottorios assendary applications	
285,714	Weston, E	Batteries, secondary, applications Lights, arc	
285,778	Adams, W		
285,784	Bartlett, G. P.		Oot 9 1883
285,799	Conly, M. S		Oct. 2, 1883
285,805	Fiske, B. A.	Telegraphs, dial	Oct. 2, 1883
285,807		Batteries, secondary	Oct. 2, 1883
285,852	Stilwell, R		Oct. 2, 1883
285,853 285,854	Stilwell, Re	do	Oct. 2, 1883 Oct. 2, 1883 Oct. 2, 1883 Oct. 2, 1883 Oct. 2, 1883 Oct. 2, 1883
285,857		Motors	Oct. 2, 1883
285,858		Locomotion	
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No.	Name.	Class.	D.	ATE.
285,859	Van Depoele, C. J	Lights, systems and appliances	Oct.	2, 1883
285,944	Applegate, D. H	Railway-siguals	Oct.	-2.1883
285,977	Dennis, J. W Finch, R. S	Therapeutics, body-wearTelegraphs, fire	_	2, 1883
285,983 286,030	Marcus, S	Applications, tools and machines	Oct.	2, 1883 2, 1883
286,035	Mayall, T. J	Conductors	Oct.	2, 1883
286,036	Mayall, T. J.	do	Oct.	2, 1883
286,086	Spang, H. W	Lightning-rods	Oct.	2, 1883
286,093 286,094	Van Depoele, C. J.	Lights, are	Oct.	2, 1883 2, 1883
286,100	Wiswall, A	Circuit-closers	Oct.	2, 1883
286,107	Athearn, W. E			2, 1883
286,144_	Moffatt, R. R.			2, 1883
286,158	Tupper, J. A	Lights, systems and appliances		2, 1883
286,181 286,208	Létrange, L	Applications, general		9, 1883 9, 1883
286,220	Phillips, H. O	Conductors	Oct.	9, 1883
286,241	Van Choate, S. F.	Magneto-electric	Oct.	9, 1883
286,242	Van Choate, S. F.	do	Oct.	9, 1883
286,247 286,259		Batteries, secondary		9, 1883
286,259 286,268		Telegraphs, railway-ear		9, 1883 9, 1883
286.273	Delany, P. B	Telegraphs, multiplex	Oct.	9, 1883
286,274	Delany, P. B	do	Oct.	9, 1883
286,275	Delany, P. B	do	Oct.	9, 1883
286,276 286,277	Delany, P. B	do	Oct.	9, 1883
286,278	Delany, P. B	do	Oct.	9, 1883 9, 1883
286,279	Delany, P. B	Telcgraphs, duplex	Oct.	9, 1883
286,280	Delany, P. B	do	Oct.	9, 1883
286,281	Delany, P. B		Oct.	9, 1883
286,282 286,288	Delany, P. B		Oct.	9, 1883 9, 1883
286,325	Mather, R. H	Regulators	Oct.	9, 1883
286,350	Vail, J. II		Oct.	9, 1883
286,359	Williams, W. H	Electrolysis	Oct.	9, 1883
286,393	Copeland, F. A	Telegraphs, fire	Oct.	9, 1883
286,397 286,414	Devlin, J. A Fuller, G. W	Lights, systems and appliances	Oct.	9, 1883 9, 1883
286,415	Fuller, G. W.	do	Oct.	9, 1883
286,416	Fuller, G. W.	do	Oct.	9, 1883
286,437		Conductors	Oct.	9, 1883
286,445 286,481	Johnson, W. S.	Meters	Oct, Oct,	9, 1883 9, 1883
286,497	Stabler, J. P	Magneto-clectric	Oct.	9, 1883
286,518	Wilkins, G. A	Telephonic telegraphs, systems	Oct.	9, 1883
286,529	Buell, C. E.		Oct.	9, 1883
286,566 286,571		Alarms, burglar Locomotion	Oct.	9, 1883 16, 1883
286,577		Anti-inductive devices		16, 1883
286,581	Blake, J. E. and Hall, C. A			16, 1883
286,595	Durant, G. F			
286,612 $286,667$	Honston, E. J	Magneto-electric Telegraphs, printing		
286,680	Botts, B. N		Oct.	16, 1883
286,681	Bowen, W. J	Iusulators	Oct.	16, 1883
286,698		Conductors		
286,722		Indicators		
286,737 $286,796$		Telephonic telegraphs, magnetic		
286,801		Insulators		
286,809	Haid, A	Batteries, galvanic	Oct.	16, 1883
286,829	Kohmescher, J. H.	Conductors	Oct.	16, 1883
286,833 286,834		Regulators		
286,841		do		
286,861	Speed, F. M	Underground lines	Oct.	16, 1883
286,867	Thompson, B	Telegraphs, dnplex	Oct.	16,1883
286,873		Motors———————————————————————————————————		
286,875 286,876	Waite H. E.	Telephonic telegraphs, magnetic	Oct.	16, 1883
286,888	Wiswall, A	Alarms, burglar	Oct.	16, 1883
286,916	Fitz Gerald, D. G	Lights, incandescent	Oct.	16, 1883
286,917		Relays and sounders		
	Haskins, C. D.	Telephonic telegraphs, electric	Oct.	
286,923 286,925		Lights, are		16 1882

NUMERICAL INDEX—ELECTRICITY.

No.	Name.	CLASS.	DATE.
200,000	N. C. I.P.	TV-11V	0 + 16 1000
286,938 286,939	Martin, J. F	Underground linesdo	Oct. 16, 1883 Oct. 16, 1883
286,940		do	Oct. 16, 1883
286,941	Martin, J. F.	do	Oct. 16, 1883
286,942	Martin, J. F	do	Oct. 16, 1883
286,943	Martin, J. F.	do	Oct. 16, 1883
286,944	Martin, J. F.	do	Oct. 16, 1883
286,945 286,946	Martin, J. F	Conductors	Oct. 16, 1883 Oct. 16, 1883
286,947	Martin, J. F		Oct. 16, 1883
286,948	Martin, J. F	Conductors, anti-iuductive	Oct. 16, 1883
286,949	Martin, J. F	do	Oct. 16, 1883
286,950	Martin, J. F	Underground lines	Oct. 16, 1883
286,953	Moses, O. A	Lights, are	Oct. 16, 1883
286,955	O'Sullivan, M. J.	Relays and sounders	Oct. 16, 1883
286,963 286,970	Reed, T. S	Annunciators	Oct. 16, 1883 Oct. 16, 1883
286,977	Van Hoevenbergh, H	Telegraphs, printing	Oct. 16, 1883
286,985	Woolley, L. G	Magneto-electric	Oct. 16, 1883
287,015	Gardner, W. F	Clocks	Oct. 23, 1883
287,040	McCoy, J. A	Lights, systems and appliances	Oct. 23, 1883
287,067	Tibbits, J. B.	Lights, arc	Oct. 23, 1883
287,089	Bendix, J.	Applications, general	Oct. 23, 1883
287,092 287,096	Brennan, J. W. and Rousseau, N Carr, J. E.	Conductors Therapeutics, body-wear	Oct. 23, 1883 Oct. 23, 1883
287,111	Drawbaugh, D.	Telephonic telegraphs, relays and repeaters.	Oct. 23, 1883
287,146	Martin, J. F	Conductors	Oct. 23, 1883
287,166	Reynolds, C. C	Telephonic telegraphs, electric	Oct. 23, 1883
287,169	Rogers, J. H	do	Oct. 23, 1883
287,170	Roovers, A. and A	Therapeutics, body-wear	Oct. 23, 1883
287,221	Brasher, T. M	Exploding	Oct. 23, 1883
287,236 287,237	Clark, E	Underground lines	Oct. 23, 1883
287,265	Field, S. D.	Telegraphs, printing	Oct. 23, 1883 Oct. 23, 1883
287,266	Field, S. D.	do	Oct. 23, 1883
287,267	Field, S. D	do	Oct. 23, 1883
287,286	Hewitt, W	Lightning-rods	Oct. 23, 1883
287,288	Jacob, F		Oct. 23, 1883
287,291	Johnson, A. M	Recorders	Oct. 23, 1883
287,300 287,301	Lane, T. W Lane, T. W	Telephonic telegraphs, systemsdo	Oct. 23, 1883 Oct. 23, 1883
287,301	Perkins, C. G	Lights, incandescent	Oct. 23, 1883
287.314	Perkins, C. G.		Oct. 23, 1883
287,315	Perkins, C. G	Lights, systems and appliances	Oct. 23, 1883
287,316	Perkins, C. G.	do	Oct. 23, 1883
287,317	Perkins, C. G	do	Oct. 23, 1883
287,318		Lists in a description	Oct. 23, 1883
287,319 287,320	Perkins, C. G.		Oct. 23, 1883 Oct. 23, 1883
287,321	Perkins, C. G		Oct. 23, 1883
287,322	Perkins, C. G.		Oct. 23, 1883
287,323		Lights, incandesceut	
287,343	Van Depoele, C. J.	Magneto-electric	Oct. 23, 1883
287,344	Van Depoele, C. J.		
287,345		Regulators	Oct. 23, 1883
287,346 287,347	Van Depoele, C. J Van Depoele, C. J		Oct. 23, 1883
287,356	Anders, G. L	Telephonic telegraphs, systems	Oct. 23, 1883
287,380		Heaters	Oct. 23, 1883
287,401	Ahearn, T	Recorders	Oct. 30, 1883
287,446	Le Grande, W. W	Railway-signals	Oct. 30, 1883
287,449	Maloney, J. A.	Telephonic telegraphs, relays and repeaters	Oct. 30, 1883
287,466		Railway-signals	Oct. 30, 1883
287,490 287,495	Wilson, E. L.		Oct. 30, 1883 Oct. 30, 1883
287,501	Bradley, C. S.		Oct. 30, 1883
287,509	Du Bois, J. S.		Oct. 30, 1883
287,511		Regulators	
287,512	Edison, T. A	Magneto-electric	Oct. 30, 1883
287,513		do	
287,514		Lights systems and applicance	
287,515 287,516		Lights, systems and appliances	Oct. 30, 1883
287,517	Edison T. A	Magneto-electric Lights, systems and appliances	Oct. 30, 1883 Oct. 30, 1883
287,518	Edison, T. A	Lights, incandescent	Oct. 30, 1883
287,519	Edison, T. A	do	Oct. 30, 1883
287,520		do	

No.	NAME.	CLASS.	DATE.
287,521	Edison, T. A	Magneto-electric	Oct. 30, 1883
287,522	- Edison, T. A	Lights, systems and appliances	Oct. 30, 1883
287,523		Powleton	Oct. 30, 1883
287,524 287,525		RegulatorsLights, systems and appliances	Oct. 30, 1883 Oct. 30, 1883
287,532	Goddard, C	Underground lines	Oct. 30, 1883
287,533	Goddard, C	do	Oct. 30, 1883
287,565	Murdock, G. J.		Oct. 30, 1883
287,608 287,609		Magneto-electric	
287,610		do	Oct. 30, 1883 Oct. 30, 1883
287,611		do	Oct. 30, 1883
287,617	Brainerd, H. C	Applications, general	Oct. 30, 1883
287,618	Brigel, L. A.	Circuit-closers	Oct. 30, 1883
287,641 287,647	Delafield, A. F	Batteries, galvanic Lightning-arresters	Oct. 30, 1883 Oct. 30, 1883
287,649	Enos, J. A	Recorders	Oct. 30, 1883
287,654	Freeman, W. P.	Indicators	Oct. 30, 1883
287,661	Giles, J. E	Magneto-electric	Oct. 30, 1883
$287,664 \\ 287,678$	Gordon, W. C	Annunciators Magneto-electric	Oct. 30, 1883
287,678	Oram, J. M	Telephonic telegraphs, systems	Oct. 30, 1883 Oct. 30, 1883
287,742	Waite, II. E	Telephonic telegraphs, magnetic	Oct. 30, 1883
287,743	Waite, H. E. and Bartlett, S. H	do	Oct. 30, 1883
287,757	Dyer, R. N	Telegraphs, fire	
$287,758 \\ 287.766$	Dyer, R. N. and Seely, H. W.——————————————————————————————————	HeatersConductors	Oct. 30, 1883 Oct. 30, 1883
287.773	Nungesser, P. P	Magneto-electric	
287,774		do	
287,775	Peirce, W. E	Magnetic-locks	Oct. 30, 1883
287,776	Phillips, II. O		
287,800 287,812	Felton, L. E	Magneto-electric Batteries, galvanic	
287,830	Hinsdale, C. C	Insulators	
287,855	Parker, L. C.		Nov. 6, 1883
287,873	Scribner, C. E	Magneto-electric, hand-machines	Nov. 6, 1883
287,875	Shepard, C. S.	Cut-outs, niechanical	
287,881 287,896	Smith, C. D. F Bartlett, S. H. and Waite, H. E	Lights, systems and appliances Telephonic telegraphs, magnetic	
287,897	Baldwin, C. W.	Applications, tools and machines	
287,914	Dement, M. H.	Transmitters	Nov. 6, 1883
287.929	Hewitt, W	Lightning-rods	
287,957 288,002	Osborne, J. W	Applications, general————————————————————————————————————	
288,017	Clay, H	Telephonic telegraphs, electric	
288,033	Detrick, C	Underground liues	
288,042	Elphinstone, W. B. F. and Vincent, C. W	Magneto-electric	
288,051		Separators	Nov. 6, 1883
288,068 288,089	Kuhnmüneli, J		Nov. 6, 1883
288,102	Nickum, G. S	Applications, tools and machines	
288,107	Pearce, F	Telegraphs, fire	Nov. 6, 1883
288,132	Stanard, R. T.	Conductors	Nov. 6, 1883
288,157 288,175	Baxter, W., jr	Lights, are	Nov. 6, 1883 Nov. 6, 1883
288,183	Ohly, C. H	Telephonic telegraphs, systems	Nov. 6, 1883
288,202	Bowen, W. J	Bells	Nov. 13, 1883
288,215	Dolbear, A. E	Telephonic telegraphs, electric	Nov. 13, 1883
288,217 288,218	Edmunds, H., jr	Lights, incandescentdo	Nov. 13, 1883
288,218 288,310	Edmunds, H., jr Cobb, H. B	Underground lines	Nov. 13, 1883 Nov. 13, 1883
288,311	Cobb, H. B.	do	Nov. 13, 1883
288,315	De Ferrauti, S. Z. and Thompson, A	Regulators	Nov. 13, 1883
288,316	De Ferranti, S. Z. and Thompson, A.	Magneto-electric	
288,318 288,320	Edison, T. A Eckert, W. H., Seely, J. A. and Eckert, E. A	Regulators	
288,346	Knowles, E. R.	Lights, are	
288,348	Lane, F	Railway-signals	Nov. 13, 1883
288,356	Molera, E. J	Locomotion	
288,360	Oakman, S	InsulatorsTelephonic telegraphs, mechanical	
288,366 288,393	Arnold, C. R	Regulators	
288,395	Bain, F	Applications, tools and machines	Nov. 13, 1883
288,402	Borodoulin, N	Indicators	Nov. 13, 1883
	Johnson, L.	Conductors	Nov 13 1883
288,443 288,449	Kinsman, J. H	Telephonic telegraphs, calls	

No.	Name.	CLASS.	DATE.
288,480	Phelps, W. P.	Railway-signals	Nov. 13, 1883
288,496	Schlæfli, J. P. A	Clocks	Nov. 13, 1883
288,513	Thomas, W. M	Locomotion	Nov. 13, 1883
288,536	Wilson, J. C. and Davis, M. G.	Telegraphs, fire	Nov. 13, 1883
288,555 288,556	Dryer, B. A Dummer, E	Underground lines Railway-signals	Nov. 13, 1883 Nov. 13, 1883
288,570	Hess, A. T	Telegraphs, fire	Nov. 13, 1883
288,609	Anderson, H	Keys	Nov. 20, 1883
288,623	Crane, A. S.	Clocks	Nov. 20, 1883
288,627	Eckert, W. H. and Seely, J. A.	Telephonic telegraphs, systems	Nov. 20, 1883
288,629	Gilman, C. C	Underground lines	Nov. 20, 1883
288,677	Stevenson, T. S	Applications, tools and machines	Nov. 20, 1883
288,682 288,691	Van Depoele, C. J	Cut-outs, thermal Telephonic telegraphs, calls	Nov. 20, 1883 Nov. 20, 1883
288,786	Field, S. D	Telegraphs, dynamo	Nov. 20, 1883
288,790	Giles, J. E	Underground lines	Nov. 20, 1883
288,795	Hamon, A. H	Conductors	Nov. 20, 1883
288,818	Kimball, A. S	Magneto-electric	
288,826	McConnell, J. T	Lights, are	Nov. 20, 1883
288,829	McTighe, T. J	Magneto-electric	
288,830	McTighe, T. J. and McConnell, J. T	Tildo	Nov. 20, 1883
288,831	McTighe, T. J. and McConnell, J. T.	Lights, are	Nov. 20, 1883
288,835 288,881	Miller, A. G. Smith, W. C.	Telephonic telegraphs, mechanical Relays and sounders	Nov. 20, 1883 Nov. 20, 1883
288,888	Stroudley, W. and Houghton, E. J.	Batteries, secondary, applications	Nov. 20, 1883
288,906	Willson, R. W.	Clocks	Nov. 20, 1883
288,908	Wright, C. D. and Fisher, C. A.	Telephonic telegraphs, systems	Nov. 20, 1883
288,909	Wright, C. D. and Fisher, C. A.	do	Nov. 20, 1883
288,915	Beeman, J. S.	Magneto-electric	Nov. 20, 1883
288,916	Bergmann, S	Batteries, galvanic	Nov. 20, 1883
288,963	Beeman, J. S., Taylor, W. and King, F	Regulators	Nov. 20, 1883
288,971 289,008	Benson, G. T.	Lights, incandescent	
289,076	Dodge, T. H	Railway-signals	Nov. 27, 1883
289,077	Doolittle, G. and Stanley, H. D.	Conductors	Nov. 27, 1883
289,092	Halkyard, W.	do	
289,137	Putnam, T. A. B.	Railway-signals	Nov. 27, 1883
289,164	Strohm, S. D	Underground lines	Nov. 27, 1883
289,165		do	
289,166	Strohm, S. D	do	
289,173 289,178	Taylor, T. F.	Telegraphs, automatic	
289,179	Treourtha J	Telephonic telegraphs, systems	Nov. 27, 1883
289,180		do	Nov. 27, 1883
289,197	Weston, E	Transmission of power	Nov. 27, 1883
289,198		do	Nov. 27, 1883
289,199	Weston, E		Nov. 27, 1883
289,200	Weston, E	Magneto-electric	Nov. 27, 1883
289,205 289,233	Anderson, R Corwin, W. S	Telegraphs, automatic	Nov. 27, 1883 Nov. 27, 1883
289,285	Maloney, J. A.	Relays and sounders	Nov. 27, 1883 Nov. 27, 1883
289,301	Nicholson, H. C.	Telegraphs, quadruplex	Nov. 27, 1883
289,309	Robertson, J. H.		Nov. 27, 1883
289,320	Suit, S. T.	Telegraph-poles	Nov. 27, 1883
289,321	Tregurtha, J	Telephonic telegraphs, systems	Nov. 27, 1883
289,324		Regulators	Nov. 27, 1883
289,325 289,326		do	Nov. 27, 1883
289,327	Weston, E	Lights, systems and appliances	Nov. 27, 1883 Nov. 27, 1883
289,328	Weston, E. and Curtis, L. E	Batteries, secondary, applications	Nov. 27, 1883
289,353	Loring, C. T	Telephonic telegraphs, systems	Nov. 27, 1883
289,386	Case, W. E.	Batterics, secondary	Dec. 4, 1883
289,411	Happersberger, F	Annunciators	Dec. 4, 1883
289,425	Levison, W. G.	Lights, systems and appliances	
289,449	Rousseau, N	Insulators	
289,456 289,470	Sheehy, R. J	Lights, incandescent	
289,470	Tomney, J	Alarnis, burglar	
289,539	Jackson, C. A	Telephonic telegraphs, systems	
289,540	Jackson, C. A	Motors	
289,541	Jackson, C. A	do	Dec. 4, 1883
289,545	Mac Eachran, D	Separators	Dec. 4, 1883
289,552	Palmer, A. C		
	Shaw, T	Conductors	Dec. 4, 1883
289,575		T: 14	D 1 1000
289,580 289,590	Thomson, E		

No.	Name.	CLASS.	DATE.
289,629	Dyer, J. W	Lightning-arresters	Dec. 4, 1883
289,630	Dyer, J. W	Cut-outs, electro-magnetic	Dec. 4, 1883
289,631	Eaton, A. K	Batteries, thermal	
289,642 289,649	Giles, C. K.——————————————————————————————————	Applications, generaldo	Dec. 4, 1883 Dec. 4, 1883
289,665	Lazelle, J. L		
289,693	Nash, L. II	Appplications, tools and machines	Dec. 4, 1883
289,720	Shields, J	_11_	Dec. 4, 1883
289,725	Tainter, S		Dec. 4, 1883
$289,768 \\ 289,795$	Anderson, R. C	ExplodingBatteries, galvanic	Dec. 4, 1883 Dec. 11, 1883
289,823	Freeman, W. P.	Lights, are	Dec. 11, 1883
289,827	Gassett, O	Railway-signals	Dec. 11, 1883
289,834	Herzog, F. B	Telephonic telegraphs, calls	Dec. 11, 1883
289,837	Holzer, W	Lights, systems and appliancesdodo	Dec. 11, 1883 Dec. 11, 1883
289,838 289,862	Sheehy, R. J	Meters	Dec. 11, 1883
289,869	Spelman, P. H	Telegraphs, fire	Dec. 11, 1883
289,890	Chambers, J. C	Conductors	Dec. 11, 1883
289,891	Chambers, J. C	Underground lines	Dec. 11, 1883
289,895 289,896	Daft, L	Car-brakes	Dec. 11, 1883 Dec. 11, 1883
289,897	Daft, L		Dec. 11, 1883
289,918	Kühmaier, F	Motors	Dec. 11, 1883
289,944	Webb, G. B		Dec. 11, 1883
289,966	Freeman, W. P		Dec. 11, 1883 Dec. 11, 1883
290,025 290,057	Hyde, J. B		Dec. 11, 1883
290,058		do	Dec. 11, 1883
290,098	Olmsted, J		Dec. 11, 1883
290,101	Page, H. W. and Carley, II		Dec. 11, 1883
290,121 $290,122$	Shaw, W. A.	Conductorsdo	Dec. 11, 1883 Dec. 11, 1883
290,149	Unger, J. and Eisele, S. O		Dec. 11, 1883
290,150	Unger, J. and Eisele, S. O	Lights, are	Dec. 11, 1883
290,152	Vance, S. B. II. and Hinds, C. H	Lights, systems and appliances	Dec. 11, 1883
290,182 290,199	Hastings, E. B. Ball, C. M	Separators	Dec. 11, 1883 Dec. 18, 1883
290,209	Constock, W. P., jr	Railway-signals	
290,259	Molloy, B. C	Separators	Dec. 18, 1883
290,292	Van Hoevenbergh, H	Lights, are	Dec. 18, 1883
290,302 290,307	Wilson, J. C.——————————————————————————————————	Telegraphs, fire Telephonic telegraphs, systems	Dec. 18, 1883 Dec. 18, 1883
290,338	Maxwell, G. S.	Railway-signals	Dec. 18, 1883
290,350	Paine, II. M	Magneto-electric	Dec. 18, 1883
290,375	Waring, R. S.	Underground lines	Dec. 18, 1883
290,406 290,407	Edmunds, H., jr	Lights, systems and appliances	Dec. 18, 1883 Dec. 18, 1883
290,412	Giles, J. E	Regulators	Dec. 18, 1883
290,413	Goebel, C. H	Underground lines	Dec. 18, 1883
290,414	Goebel, C. H	do	Dec. 18, 1883 Dec. 18, 1883
290,415 290,416	Goebel C H	do	Dec. 18, 1883
290,441	Lüngen, A	Gas-lighting	Dec. 18, 1883
290,467	Perkins, C. G	Lights, incandescent	Dec. 18, 1883
290,468	Perkins, C. G.	Batteries, secondary, applications	Dec. 18, 1883 Dec. 18, 1883
290,469 290,470	Perkins, C. G.	Lights, incandescent Batteries, secondary, applications	Dec. 18, 1883
290,495	Than, H	Bells	Dec: 18, 1883
290,550	Du Shane, J	Magneto-electric	Dec. 18, 1883
290,551	Easton, J. W	Telegraphs, printing	Dec. 18, 1883 Dec. 18, 1883
290,556 290,557	Field, S. D	do	Dec. 18, 1883
290,558	Finn, J. L	Lightning-rods	Dec. 18, 1883
290,602	Pattyson, W. D. C.		Dec. 18, 1883
290,611 290,613		Batteries, secondary	Dec. 18, 1883 Dec. 18, 1883
290,635	Vansize, W. B. and Buckingham, C. L.——Field, S. D.——————————————————————————————————	do	Dec. 18, 1883
290,654	Velloni, G. G. L	Batteries, galvanie	Dec. 18, 1883
290,689	Kampfe, R	Car-brakes	Dec. 25, 1883
290,709 290,730	Ross, J. S. Bartelous, J. V. M.	Magneto-electric, hand-machines Telephonic telegraphs, systems	Dec. 25, 1883 Dec. 25, 1883
290,730	Bogart, A. L	Cut-outs, electro-magnetic	Dec. 25, 1883
290,752	Davis, B. A	Telegraph-poles	Dec. 25, 1883
290,753	Delany, P. B	Conductors	Dec. 25, 1883
290,769	Gray, G Beckwith, W. C	Conductors, anti-inductive Lights, arc	Dec. 25, 1883 Dec. 25, 1883
290,836	Deckwitti, W. C	inguis, alt	20, 20, 1000

No.	, Name.	Class.	DATE.
290,844	Bowman, C. M	Connectors	Dec. 25, 1883
290,845	Breckenridge, H. W	Switches	Dec. 25, 1883
290,853	Campbell, H. F		Dec. 25, 1883
290,854		P-tt-vi	Dec. 25, 1883
290,873 290,881	Farmer, M. G	Batteries, secondary, applications	Dec. 25, 1883 Dec. 25, 1883
290,894	Kettell, J. F		Dec. 25, 1883
290,898	Lockwood, T. D.	Telephonic telegraphs, relays and repeaters	Dec. 25, 1883
290,922	Pope, F. L	Insulators	Dec. 25, 1883
290,925 $290,926$	Rew, H. C		Dec. 25, 1883 Dec. 25, 1883
290,927		do	Dec. 25, 1883
290,930	Rew. H. C	do	
290,941	Starr, E. T	Batteries, secondary	Dec. 25, 1883
290,942		do	Dec. 25, 1883
290,943 290,949		Electrolysis	Dec. 25, 1883 Dec. 25, 1883
290,971	Campbell, H. F		Dec. 25, 1883
290,978	Drawbaugh, D	Telephonic telegraphs, magnetic	Dec. 25, 1883
290,979	Drawbaugh, D.	do	Dec. 25, 1883
290,980	Drawbaugh, D.		Dec. 25, 1883
291,063 291,094	Leitch, A. E Selden, C	AnnunciatorsTelephonic telegraphs, mechanical	
291,095	Selden, C	Railway-signals	
291,096	Selden, C	Telegraphs, duplex	
291,097	Selden, C	do	Jau. 1, 1884
291,141	Bradley, C. S.	Regulators	
291,170 291,171	Edmunds, H., jr	Conductors	
291,209	Edmunds, H., jr Lever, C	Lights, incandescent————————————————————————————————————	
291,211	McIntire, C	Connectors	
291,236	Smith, G	Telegraphs, quadruplex	
291,239	Stanley, H. D	Conductors	Jan. 1, 1884
291,241 291,286	Tobin, J. L		
291,288	Brewer, H. J		
291,299	Connolly, A. A		Jan. 1, 1884
291,310	Dillon, B. F	Alarms, burglar	Jan. 1, 1884
291,311	Drawbaugh, D	Telephonic telegraphs, electric	Jan. 1, 1884
291,312 291,317	Prawbaugh, D		
291,318	Field, S. D	Underground lines	
291,360	Knight, J. K	Railway-signals	Jan. 1, 1884
291,371	Mayall, T. J	Underground lines	Jan. 1, 1884
291,399	Randall, N		
291,405 291,435	Russell, P. G	Meters Telegraph-poles	
291,445	Weston, E		
291,463	Ball, C. E. and Bradford, C. S., jr	Applications, tools and machines	Jan. 1, 1884
291,464	Beeman, J. S	Lights, incandescent	Jan. 1, 1884
291,465 291,472	Beeman, J. S., Taylor, W. and King, F	Batteries, secondary, applications	Jan. 1, 1884
291,472	Drawbaugh, D		
291,483	Baker, W. H		
291,484	Baker, W. H	do	Jan. 8, 1884
291,526	Molera, E. J. and Cebrian, J. C.		
291,553 291,554	Van Depoele, C. J.		
291,556	Van Depoele, C. J	RegulatorsRailway-signals	
291,566	Bain, F.	Regulators	
291,575	Campbell, A	Applications, tools and machines	Jan. 8, 1884
291,590	Garv, W. W	Railway-signals	
291,636 291,648	Stockwell, L. W Van Depoele, C. J	Motors	
291,649		Cut-outs, electro-magnetic	
291,650	Van Depoele, C. J		
291,651	Van Depoele, C. J	Lights, are	Jan. 8, 1884
291,652 291,653	Van Depoele, C. J		
291,653	Van Depoele, C. J		
291,684	Body, M Cheever, J. H		
291,705	Field, S. D		
291,715	Greives, J. and Bleoo, J. H	Conductors, anti-inductive	Jan. 8, 1884
291,716 291,717	Greives, J		
291,717		do	
291,721		Railway-signals	
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No.	Name.	CLASS.	DATE.
291,731	Hinds, C. H	Lights, systems and appliances	Jan. 8, 1884
291,798	Starr, E. T		Jan. 8, 1884
291,802	Sutton, L. W., jr Williams, A. and Gannon, J. M		
291,825 $291,849$	Howson, H.	Cut-outs, mechanicalUnderground lines	Jan. 8, 1884
291,850	Knowles, E. R	Batteries, secondary	Jan. 8, 1884
291,866	Berliner, E	Telephonic telegraphs, electric	Jan. 15, 1884
291,867	Blamires, T. H		
291,871 $291,915$	Brewer, H. J Lockwood, T. D		
291,925	Morton, E. W		
291,944	Schuyler, D. A. and Waterhouse, A. G	Magneto-electric	
291,948	Small, D. M		
291,958	Thomas, W. M	Cut-outs, electro-magnetic	
291,973 291,996	Ball, C. E.——————————————————————————————————	Magneto-electric Underground lines	Jan. 15, 1884 Jan. 15, 1884
292,022	Maine, H	Telephonic telegraphs, details	Jan. 15, 1884
292,034	Molera, E. J. and Cebrian, J. C.	Batteries, secondary	Jan. 15, 1884
292,079	Wenström, J	Magneto-electric	Jan. 15, 1884
292,096	Carter, G. W. L Hayes, C. H	Separators	Jan. 15, 1884
292,113 292,115	Hayes, C. H	Annuuciators	
292,119	Kessler, J. K	Electrolysis	
292,121	Knowles, E. R. and Idell, F. E	Magneto-electric	Jan. 15, 1884
292,142	Smyth, C. A	Batteries, secondary	Jan. 15, 1884
292,153 292,161	Bowen, W. J Eaton, A. K.	Magneto-electric, hand-machines Meters	Jan. 22, 1884
292,161	Rider, A. K	Applications, tools and machines	
292,180	Ryder, S	Connectors	Jan. 22, 1884
292,193	Abdank-Abakanowicz, B	Magneto-electric, hand-machines	
292,203	Cheever, J. H	Telephonic telegraphs, electric	
292,212 292,293	Eckert, W. H.	Lights, arc	
292,233	Himmer, I. C.	Batteries, galvanic	Jan. 22, 1884
292,311	Hinton, J. R. H	Telegraphs, fire	Jan. 22, 1884
292,317	Joseph, T. B	Applications, general	Jan. 22, 1884
292,324	Knowles, E. R. and Idell, F. E		Jan. 22, 1884 Jan. 22, 1884
292,335 292,374	Lockwood, T. D. and Laue, T. W.——————————————————————————————————		Jan. 22, 1884
292,382	Stockwell, L. W	Regulators	Jan. 22, 1884
292,397		do	Jan. 22, 1884
292,403 292,433	Howell, T. J	Lights, incandescent Batteries, galvauic	
292,447		Lights, incandescent	Jan. 22, 1884
292,469	Case, W. E.	Batteries, secondary	Jan. 29, 1884
292,529	Ayrton, W. E. and Perry, J.	Locomotion	Jan. 29, 1884
292,539 292,542	Crossley, L. J., Emmott, W. and Harrison, J. F	Conductors Telephonic telegraphs, calls	Jan. 29, 1884 Jan. 20, 1884
292,570	Oram. J. M., Sutton. H. M. and Garrett. H.	do	Jan. 29, 1884
292,586	Rhodes, T. H.	Cut-outs, thermal	Jan. 29, 1884
292,602	Waite, H. E.	Telephonic telegraphs, magnetic	Jan. 29, 1884
292,603	Waite, H. E.	Telephonic telegraphs, electric	Jan. 29, 1884
292,607 292,625	Wilson, M. H	Telegraphs, automatic	
292,687		Railway-signals	
292,691	Sellon, J. S.	Regulators	Jan. 29, 1884
292,694		Conductors	
292,713 292,714		Cut-outs, thermalIndicators	
292,714		Regulators	
292,716		Lights, systems and appliances	Jan. 29, 1884
292,717	Westou, E	Conductors	Jan. 29, 1884
292,718	Weston, E	Lights, systems and appliances	Jan. 29, 1884
292,719 292,720	Weston, E	Magneto-electricLights, systems and appliances	
292,721	Weston, E	Regulators	
292,743	Gassett, O	Railway-signals.	Jan. 29, 1884
	Gassett, O	Electrolysis	
292,744	President I II	EJPCTFOLVSIS	Jan. 29, 1884
292,744 292,753	Kessler, J. K.		
292,744 292,753 292,761	Olmsted, J	Lights, systems and appliances	Jan. 29, 1884
292,744 292,753 292,761 292,762 292,772		Lights, systems and appliances Batteries, secondary Conductors	Jan. 29, 1884 Jan. 29, 1884 Jan. 29, 1884
292,744 292,753 292,761 292,762 292,772 292,785	Olmsted, J	Lights, systems and appliances Batteries, secondary Conductors Cut-outs, thermal	Jan. 29, 1884 Jan. 29, 1884 Jan. 29, 1884 Feb. 5, 1884
292,744 292,753 292,761 292,762 292,772 292,785 292,786	Olmsted, J	Lights, systems and appliances Batteries, secondary Conductors Cut-outs, thermal Alarms, burglar	Jan. 29, 1884 Jan. 29, 1884 Jan. 29, 1884 Feb. 5, 1884 Feb. 5, 1884
292,744 292,753 292,761 292,762 292,772 292,785	Olmsted, J	Lights, systems and appliances Batteries, secondary Conductors Cut-outs, thermal	Jan. 29, 1884 Jan. 29, 1884 Jan. 29, 1884 Feb. 5, 1884 Feb. 5, 1884 Feb. 5, 1884

No.	Name.	CLASS.	DATE.
292,835	Mehren, J. F	Telephonic telegraphs, electric	Feb. 5, 1884
292,840	Moses, O. A		
292,547	Patterson, W. R		Feb. 5, 1884
292,848	Patterson, W. R	do	Feb. 5, 1884
292,849	Patterson, W. R	do	Feb. 5, 1884
292,857	Rogers, J. H Rogers, J. H		Feb. 5, 1884 Feb. 5, 1884
292,858 292,865	Scribner, C. E		
292,866	Scribner, C. E	do	Feb. 5, 1884
292,881	Ware, F	Telephonic telegraphs, electric	Feb. 5, 1884
292,930	Lubke, A. E. G	Motors	Feb. 5, 1884
292,962	Talbot, C. N	Clocks	
292,966	Van Hoevenbergh, H	Telegraphs, printing	Feb. 5, 1884
292,992	Cornelius, O. H. P. and Turner, G. H Fairbanks, L. S		Feb. 5, 1884 Feb. 5, 1884
292,999 293,076	Piette, L. and Krizik, F	Lights, are	
293,105	Spurgeon, S. J		
293,110	Taylor, T. F	Telegraphs, automatic	
293,111	Taylor, T. F	do	Feb. 5, 1884
293,112		do	
293,116	Timmis, I. A. and Currie, S. C. C.	Electro-magnets	Feb. 5, 1884
293,118	Townsend, L		Feb. 5, 1884
293,136	Benjamin, P	Telephonic telegraphs, details	Feb. 5, 1884 Feb. 5, 1884
293,154 293,160	Gilliland, E. T		
293,160	Gilliland, E. T		
293,162	Gilliland, E. T	Magneto-electric, haud-machines	Feb. 5, 1884
293,171	Haskins, C. D	Telephonic telegraphs, systems	Feb. 5, 1884
293,179	King, C. W. and Cliff, A.	Applications, tools and machines	
293,196	Scribner, C. E	Telephonic telegraphs, systems	Feb. 5, 1884
293,197		do	Feb. 5, 1884 Feb. 5, 1884
293,198 293,206	Wilson F M	do	Feb. 5, 1884 Feb. 5, 1884
293,214	Averell. W. W	Underground lines	Feb. 12, 1884
293,242	Hale; A. W	Insulators	Feb. 12, 1884
293,256	Languereau, J.	Lights, incandescent	
293.271	Philips, W. J. and Kitson, G. L	Conductors	Feb. 12, 1884
293,272	Pope, F. L		Feb. 12, 1884
293,318	Giles, J. E	Lights, systems and appliances	Feb. 12, 1884
293,330 293,338	Jenkins, E. H Many, C. M		Feb. 12, 1884
293,381	Upham, J. C. and Rogers, J. P.	Railway-signals	Feb. 12, 1884
293,426	Cushing, F. W		Feb. 12, 1884
293,432	Edison, T. A	Magneto-electric	Feb. 12, 1884
293,433	Edison, T. A		Feb. 12, 1884
293,434	Edison, T. A		Feb. 12, 1884
293,435 293,441	Fitch, F. K		Feb. 12, 1884 Feb. 12, 1884
293,482		Magneto-electric	Feb. 12, 1884
293,495	Moses, O. A	Lights, are	Feb. 12, 1884
293,518	Prince, J	Applications, general	Feb. 12, 1884
293,532	Smith, L. L	Conductors	Feb. 12, 1884
293,533	Smith, T. L	Underground lines	Feb. 12, 1884
293,552	Bergmann, S	Lights, systems and appliances	Feb. 12, 1884
293,553 293,556	Bradbury W	Motors	Feb. 12, 1884 Feb. 12, 1884
293,561		Telephonic telegraphs, electric	Feb. 12, 1884
293,563	Clarke, C. L. and Leigh, J	Batteries, galvanic	Feb. 12, 1884
293,571	Gassett, O	Bells	Feb. 12, 1884
293,612	Woolley, L. G	Lightning-rods	Feb. 12, 1884
293,613	Herotizky, G. M.	Clocks	Feb. 12, 1884
293,626	Cobb H P	Circuit-closers	
293,632 293,679	Stark, W. F	Underground lines	Feb. 19, 1884 Feb. 19, 1884
293,688	Trask, C. H		Feb. 19, 1884
293,735	Henderson, J. C	Applications, tools and machines	Feb. 19, 1884
293,736	Hibbard, A. S	Telephonic telegraphs, systems	Feb. 19, 1884
293,758	Lubke, A. E. G	Magneto-electric	Feb. 19, 1884
293,775	Patterson, W. R	Conductors	Feb. 19, 1884
293,828	Weiss, C. W.	Recorders	Feb. 19, 1884
293,851 293,879	De Castro, J. W		Feb. 19, 1884
293,886	Jones, J. B.		Feb. 19, 1884
293,901	McGrory, T	Insulators	Feb. 19, 1884
293,921	Townsend, H. C. and Buckingham, C. L	Cut-outs, electro-magnetic	Feb. 19, 1884
293,922	Van Hoevenbergh, H	Telegraphs, printing	Feb. 19, 1884
293,923	Van Hoevenbergh, H	Motors	Feb. 19, 1884

No.	Name.	CLASS.	DATE.
293,924	Van Hoevenbergh, H	Telegraphs, printing	Feb. 19, 1884
293,925	Van Hoevenbergh H	do	Feb 10 1881
293,926	Van Hoevenbergh, H	do	Feb. 19, 1884
293,927	Van Hoevenbergh, H	do	Feb. 19, 1884
293,928 293,929	Waters W T	Motors	Feb. 19, 1884
293,938	Boyd, D		Feb. 19, 1884 Feb. 19, 1884
293,943	Buekingham, C. L. and Townsend, H. C	Cut-outs, electro-magnetie	Feb. 19, 1884
293,944	Buckingham, C. L. and Townsend, H. C	do	Feb. 19, 1884
293,956	Eils, B. E. J	Telegraphs, quadruplex	Feb. 19, 1884
293,959	Field, S. D	Telegraphs, printing	Feb. 19, 1884
293,974 293,979	MeCarty, W. F. M	Telegraphs, automatie Keys	Feb. 19, 1884 Feb. 19, 1884
293,980	Redding, J.	Bells	Feb. 19, 1884
293,993	Withers, J. E.	Car-brakes	Feb. 19, 1884
294,008	Buell, C. E	Telegraphs, fire	
294,021	Faber, C	Separators	
294,027 294,030	Freeman, W. P	Lights, are	Feb. 26, 1884 Feb. 26, 1884
294,038	Hochhausen, W.	Regulators	Feb. 26, 1884
294,039	Hochhausen, W	do	Feb. 26, 1884
294,040	Hochhausen, W	do	Feb. 26, 1884
294,041	Hochhausen, W	do	Feb. 26, 1884
294,042 294,043	Hoehhausen, W	Lights, are————————————————————————————————————	Feb. 26, 1884 Feb. 26, 1884
294,043	Hochhausen, W		Feb. 26, 1884
294,045	Hochhaused, W.		Feb. 26, 1884
294,051	Kessler, J. K	Electrolysis	Feb. 26, 1884
294,059	McElhiney, H. H.	Dental-instruments	Feb. 26, 1884
294,066	Nystrom, J. W Thomson, E	Magneto-electric	Feb. 26, 1884 Feb. 26, 1884
294,094 294,095	Thomson, E	Motors	Feb. 26, 1884
294,116	Buys, B	Railway-signals	
294,128	Healy, O	Applications, general	Feb. 26, 1884
294,131	Himmer, V	Clocks	Feb. 26, 1884
294,132	Himmer, V	Conductors	Feb. 26, 1884
294,148 294,165	Pope, F. L	Motors.	Feb. 26, 1884 Feb. 26, 1884
294,169	Waterhouse, A. G.	Regulators	Feb. 26, 1884
294,170	Waterhouse, A. G.	do	Feb. 26, 1884
294,180	Ball, C. E	Magneto-electrie	Feb. 26, 1884
294,195 294,212	Carley, H. and McKenna, T.————————————————————————————————————	Annunciators	Feb. 26, 1884 Feb. 26, 1884
294,238	Huston, H. E	Telephonic telegraphs, mechanical	Feb. 26, 1884
294,259	Neifing, J	Keys	Feb. 26, 1884
294,270	Rae, F. B. and Healy, C. L.	Magneto-electric	Feb. 26, 1884
294,294	Waterhouse, A. G.	Lights, are	
294,297 294,307	Wilkins, G. A Buckingham, C. L	Telephonie telegraphs, systems Regulators	
294,308	Buell, C. E	Telegraphs, fire	
294,335	Ross, O. C. D	Batteries, galvanie	Feb. 26, 1884
294,336	Scribner, C. E	Telephonie telegraphs, systems	
294,351	Bartlett, W. A	Exploding	
294,365 294,371	Cobb, H. B. Davis, G. W.	Underground linesRecorders	
294,384	Hale, A. W	Insulators	
294,404	Pinkham, C. S.	Circuit-elosers	Mar. 4, 1884
294,405	Rider, A. K	Thermostats	
294,412 294,455	Stanley, W., jr	Lights, systems and appliances	
294,457	Earle, H. A. and Goltstein, EFottrell, J		Mar. 4, 1884
294,458	Fuller, G. W		Mar. 4, 1884
294,463	Haid, A	Batteries, seeondary	Mar. 4, 1884
294,464*			Mar. 4, 1884
294,465 294,482		Telephonie telegraphs, systems	Mar. 4, 1884
294,482		Underground lines	
294,532	Van Depoele, C. J	Lights, are	
294,533	Van Depoele, C. J	do	Mar. 4, 1884
294,536	Waring, R. S	Underground lines	Mar. 4, 1884
294,537 294,538		do	
294,539			Mar. 4, 1884
294,540	Waring, R. S.	do	Mar. 4, 1884
294,541	Waring, R. S.	do	Mar. 4, 1884
294,542	Waring R. S.	do	Mar. 4, 1884
294,543	waring, A. S.	do	Mar. 4, 1884

No.	NAME.	Class.	DATE.
294,544	Waring, R. S.	Underground lines	Mar. 4, 1884
294,545	Waring, R. S.	do	Mar. 4, 1884
294,546	Waring, R. S.	do	Mar. 4, 1884
294,547	Waring, R. S.	do	Mar. 4, 1884
294,548		do	Mar. 4, 1884
294,549		do	Mar. 4, 1884
294,550 $294,552$	Webb, G. B	do	Mar. 4, 1884 Mar. 4, 1884
294,557	Wilson, W. V		Mar. 4, 1884
294,563	Beach, W. W	Insulators	Mar. 4, 1884
294,613	Gramme, Z. T.	Magneto-electric	Mar. 4, 1884
294,618	Henderson, J. C.	Locomotion	Mar. 4, 1884
294,669	Pope, F. L	Electro-magnets	Mar. 4, 1884
294,688	Sheehy, R. J	Magneto-electric	Mar. 4, 1884
294,697 294,703	Stieringer, L Verstraete, E	Lights, systems and appliances	Mar. 4, 1884 Mar. 4, 1884
294,703	Bacon, M	Underground lines	Mar. 4, 1884 Mar. 4, 1884
294,719	Ball, C. M	Magneto-electric	Mar. 4, 1884
294,817	Shaffer, C. H	Dental instruments	Mar. 11, 1884
294,842	Beile, C.	Magnetic-locks	Mar. 11, 1884
294,851	Childs, W. A. and Shaw, F	Connectors	Mar. 11, 1884
294,892	Lungren, C. M	Magneto-electric	Mar. 11, 1884
294,906	Perrin, T. J	Underground lines	Mar. 11, 1884
294,913 294,928	Richter, C	Magneto-electric Connectors	Mar. 11, 1884
295,058	Sheehy, R. J		Mar. 11, 1884 Mar. 11, 1884
295,059	Shute, E. L	Gas-lighting	Mar. 11, 1884
295,073	Stone, R. C		Mar. 11, 1884
295,074	Stone, R. C	Transmitters	Mar. 11, 1884
295,075	Stone, R. C	do	Mar. 11, 1884
295,086	Waring, R. S.		Mar. 11, 1884
295,087	Welsh, A	Lights, incandescentdo	Mar. 11, 1884
295,088 295,094	Ayrton, W. E. and Perry, J		Mar. 11, 1884 Mar. 11, 1884
295,206	Stevens, H. M	Magneto-electric	Mar. 18, 1884
295,207	Stone, R. C		Mar. 18, 1884
295,219	Absterdam, J.	Telegraphs, automatic	Mar. 18, 1884
295,223	Blake, F	Telephonic telegraphs, systems	Mar. 18, 1884
295,232	Cowles, A. A		Mar. 18, 1884
295,249 295,267	Henry, J. C.	Telegraphs, fire	Mar. 18, 1884
295,287	McDaniel, C. W.——————————————————————————————————		Mar. 18, 1884 Mar. 18, 1884
295,334	Berry, W. and Stuart, P		Mar. 18, 1884
295,356	Connolly, T. A.		Mar. 18, 1884
295,365	Davis, A. G		Mar. 18, 1884
295,367	Dennis, T. L		Mar. 18, 1884
295,368	Dennis, T. L		Mar. 18, 1884
295,371 295,398	Doolittle, G		Mar. 18, 1884 Mar. 18, 1884
295,427	Pope, F. L	Railway-signals	Mar. 18, 1884
295,445	Shivler, C. S.	Alarms, burglar	Mar. 18, 1884
295,454	Sprague, F. J	Motors	Mar. 18, 1884
295,455	Starr, E. T	Batteries, secondary	Mar. 18, 1884
295,456		do	Mar. 18, 1884
295,473 295,531		Locomotion	Mar. 18, 1884
295,534	Fish, G. W		Mar. 25, 1884 Mar. 25, 1884
295,552	Hochhausen, W		Mar. 25, 1884
295,559	Kitson, G. L		
295,574	McGinnis, W. T	Batterics, galvanic	Mar. 25, 1884
295,581	Pace, R. G. and Wev, W. J	Alarms	Mar. 25, 1884
295,614	Boothby, J. W	Locomotion	
295,644	Johnson, A. F	Telegraphs, printing	Mar. 25, 1884
295,652 295,664	Kinder, A. H	Dental instruments	
295,671	Morava, W Pabst, C	Lights, arc Batteries, galvanic	Mar. 25, 1884 Mar. 25, 1884
295,686	Sparrow, F. M	Applications, general	
295,710	Wylie, R	Underground lines	
295,741	Drawbaugh, D	Telephonic telegraphs, electric	Mar. 25, 1884
295,742	Drawbaugh, D	do	Mar. 25, 1884
295,759	Hill, J	Telegraphs, fire	
295,760	Hill, J.	Thermostats	
295,789 295,804	McTighe, J. J.	Magneto-electric	
295,805	Randall, C. A.	Telcphonic telegraphs, magnetic Telephonic telegraphs, electric	Mar. 25, 1884 Mar. 25, 1884
295,806	Randall, C. A	do	Mar. 25, 1884
295,807		do	

No.	Name.	Class.	DATE.
295,836	Thomson, E	Lights, are	Mar. 25, 1884
295,855	Burke, C. G	Telegraphs, dial	Mar. 25, 1884
295,873	Jungerman, E	Clocks	Mar. 25, 1884
295,889	Starr, E. T	Batteries, secondary	
295,905 $295,913$	Brott, G. F.——————————————————————————————————	Telegraph-poles	
295,966	Williamson, J. J.	Telephonic telegraphs, callsCouductors	
295,983	Cook, F. B. and Graves, F. F.	Telephonic telegraphs, systems	
296,058	Porter, M. D	Thermostats	
296,068	Rouleau, F. V	Separators	
296,074	Shaw, T	Conductors	
296,125	Buckingham, C. L. and Townsend, H. C.	Cut-outs, electro-magnetic	
296,146	Davis, W. H	Underground lines	
296,148 296,160	Delmage, W. A.——————————————————————————————————	Applications, tools and machines	Apr. 1, 1884 Apr. 1, 1884
296,164	Haid, A	Batteries, secondary	
296,185	Kruesi, J	Underground lines	
296,211	Park, H. S	Car-brakes.	
296,212	Park, H. S	do	
296,230	Seligman, H. and E	Telephonic telegraphs, mechanical	
296,253	Vail, T. N	Telephonic telegraphs, systems	
296,256	Wagner, G. G.—Williams, F. T. and Howell, J. C.————	Clocks	
296,262 296,294	Miner, T	Batteries, secondary Conductors	Apr. 1, 1884
296,319	Duwelius, A. L	Car-hrakes	Apr. 8, 1884
296,330	Gilliland, J. F.	Telephonic telegraphs, mechanical	Apr. 8, 1884
296,331	Gumpel, C. G	Batteries, secondary	Apr. 8, 1884
296,341	Maxim, H. S	Applications, tools and machines	Apr. 8, 1884
296,349	Park, H. S	Car-brakes	Apr. 8, 1884
296,355	Ritchie, J	Lights, systems and appliances	Apr. 8, 1884
296,357	Rogers, A. J Thame, H	Electrolysis	Apr. 8, 1884
296,365 296,375	Adams, J. S. and F. U	Batteries, galvanic Lights, systems and appliances	
296,376	Auderson, R	Telegraphs, automatic	
296,380	Baiu, F	Electro-magnets	
296,401	Gillon, L	Applications, tools and machines	
296,407	Griffin, J	Lightning-arresters	
296,420	Maloney, J. A.	Telephonic telegraphs, magnetic	
296,421 296,464	Maloney, J. A Schroeder, A	Telephonic telegraphs, electric Batteries, galvanic	
296,485	Tringham, J. W	Insulators	
296,546	Flad, II	Car-brakes	
296,547	Flad, II	Connectors	Apr. 8, 1884
296,549	Flad, H	Car-brakes	
296,558	Haines, D. S. and Lake, S. D.	Insulators	
296,569	Houston, E. J. and Thomson, E.	Magneto-electric	
296,588 296,593	Lockwood, T. D	Telephonic telegraphs, calls Telephonic telegraphs, electric	
296,641		Morse-registers	
296,653	Waldo, F	Clocks	Apr. 8, 1884
296,676	Chadwick, S	Telephonic telegraphs, electric	Apr. 8, 1884
296,688		Insulators	Apr. 8, 1884
296,729		Bells Undergraph disease	
296,774		Underground lines	
296,799 296,812		Regulators	
296,829	Gillett, W	Telephonic telegraphs, electric	
296,849	Lachlan, W	Batteries, secondary	
296,857	Luhke, A. E. G	Magneto-electric	Apr. 15, 1884
296,866		Magnetic-locks	
296,874	Porter, M. D		
296,875 296,881		Insulators	
297,022		InsulatorsLights, are	
297,072		Lights, systems and appliances	
297,096	Woehrle, A. C	Magnetic-locks	Apr. 15, 1884
297,101	Baldwin, L. C. and Thurston, J. C	Insulators	Apr. 22, 1884
297,111	Campbell, A	Applications, tools and machines	Apr. 22, 1884
297,148	McFall, E. H.	Telephonic telegraphs, calls	Apr. 22, 1884
297,166 297,167		Telephonic telegraphs, magnetie	
297,167	Rogers J H	Telephonic telegraphs, electric	Apr. 22, 1884
297,175	Shelbourne, S. F	Conductors, anti-inductive	Apr. 22, 1884
297,176	Sbelbourne, S. F	do	Apr. 22, 1884
297,177	Shelbourne, S. F.	do	Apr. 22, 1884
297,178	Sbelhourne, S. F.	do	Apr. 22, 1884
297,179	Sheibourne, S. F	Underground lines	Apr. 22, 1884

297,582				
297,181 Shelbourne, S. F. Conductors Apr. 22, 1884 297,185 Shelbourne, S. F. Telegraph-poles Apr. 22, 1884 297,185 Shelbourne, S. F. Underground lines Apr. 22, 1884 297,194 Thomson, E Lights, arc Apr. 22, 1884 297,194 Thomson, E Lights, arc Apr. 22, 1884 297,194 Thomson, E do Apr. 22, 1884 297,196 Thomson, E do Apr. 22, 1884 297,290 Thomson, E Adv. 24, 24, 24, 24, 24, 24, 24, 24, 24, 24,	No.	Name.	. Class.	DATE.
297,181 Shelbourne, S. F. Conductors Apr. 22, 1884 297,185 Shelbourne, S. F. Telegraph-poles Apr. 22, 1884 297,185 Shelbourne, S. F. Underground lines Apr. 22, 1884 297,194 Thomson, E Lights, arc Apr. 22, 1884 297,194 Thomson, E Lights, arc Apr. 22, 1884 297,194 Thomson, E do Apr. 22, 1884 297,196 Thomson, E do Apr. 22, 1884 297,290 Thomson, E Adv. 24, 24, 24, 24, 24, 24, 24, 24, 24, 24,	297.180	Shelbourne, S. F	Conductors, anti-inductive	Apr. 22, 1884
297,183 Shelbourne, S. F. Underground lines Apr. 22, 1884 207,184 Shelbourne, S. F. Conductors, anti-inductive Apr. 22, 1884 207,186 Smith, G. Telegraphs, quadruplex Apr. 22, 1884 207,186 Thomson, E. Lights, are Apr. 22, 1884 207,189 Thomson, E. Lights, are Apr. 22, 1884 207,189 Thomson, E. do Apr. 22, 1884 207,280 Thomson, E. do Apr. 22, 1884 207,281 Lawson, J. W. Magneto-electric Apr. 22, 1884 207,281 Pates, T. H. Lightning-rods Apr. 22, 1884 207,281 Pates, T. H. Locomotion Apr. 22, 1884 207,292 Pates, T. H. Locomotion Apr. 22, 1884 207,292 Pates, T. H. Locomotion Apr. 22, 1884 207,293 Pates, T. H. Locomotion Apr. 22, 1884 207,293 Adams, J. S. Lights, systems and appliances Apr. 22, 1884 207,293 Adams, J. S. do Apr. 22, 1884 207,293 Adams, J. S.				
297,183 Shelbourne, S. F. Cunderground lines Apr. 22, 1884 297,184 Shelbourne, S. F. Conductors, anti-inductive Apr. 22, 1884 297,185 Smith, G. Telegraphs, quadruplex Apr. 22, 1884 297,186 Smith, G. Telegraphs, quadruplex Apr. 22, 1884 297,196 Thomson, E	297,182	Sbelbourne, S. F		Apr. 22, 1884
297,184 Smith, G			Underground lines	Apr. 22, 1884
267,194 Thomson, E				Apr. 22, 1884
207,193 Thomson, E	297,186	Smith, G	Telegraphis, quadruplex	Apr. 22, 1884
297,196 Thomson, E		Thomson, E	Lights, are	Apr. 22, 1884
297,197 Thomson, E		Thomson, E	do	
207,198 Thomson, E		Thomson E	do	Apr. 22, 1884
297,190 Thomson, E.		Thomson, E	do	
297,200 Thomson, E.	297,199	Thomson, E	do	Apr. 22, 1884
297,201 Thomson, E.	297,200	Thomson, E	do	Apr. 22, 1884
297,273 Jawson J. W	297,201	Thomson, E	do	Apr. 22, 1884
297.290 Pate, T. H.	297,269	Klein, P. H., jr	Lights, systems and appliances	Apr. 22, 1884
297.291 Pates, T. H.	297,273	Lawson, J. W	Magneto-electric	Apr. 22, 1884
297,306 Smith, M. H. Locomotion		Patee, I. H	Lightning-rods	Apr. 22, 1084
297.324 Weston, E	297,291	Smith M H	Locomotion	Apr. 22, 1884
297,381 Adams, J. S.	297,324			Apr. 22, 1884
297,332 Adams, J. S.				
297,333 Adams, J. S.	297,332	Adams, J. S	do	Apr. 22, 1884
297,335 Adams, J. S.	297,333	Adams, J. S	do	Apr. 22, 1884
297,336 Adams, J. S.	297,334	Adams, J. S	do	Apr. 22, 1884
297,387 Adams, J. S.	297,335			
297,388 Adams, J. S.				
297,377 Gatchouse, T. F. Lights, incandescent Apr. 22, 1884 297,387 Hildebrand, E. O Underground lines Apr. 22, 1884 297,387 Hildebrand, E. O Underground lines Apr. 22, 1884 297,438 Nevenx, C. G. E Lights, systems and appliances Apr. 22, 1884 297,438 Nevenx, C. G. E Lights, systems and appliances Apr. 22, 1884 297,447 Shaw, W. A Railway-signals Apr. 22, 1884 297,447 Shaw, W. A Batteries, secondary Apr. 22, 1884 297,448 Smith, T. L Underground lines Apr. 22, 1884 297,449 Strangways, H. B. T Telephonic telegraphs, magnetic Apr. 22, 1884 297,470 Strangways, H. B. T Telephonic telegraphs, magnetic Apr. 22, 1884 297,540 Smith, G. Telephonic telegraphs, electric Apr. 22, 1884 297,541 Wright, A. P Conductors Apr. 22, 1884 297,543 Tarabaugh, D Telephonic telegraphs, electric Apr. 22, 1884 297,545 Tarabaugh, D Telephonic telegraphs, electric Apr. 29, 1884 297,545 Lison, T. A Lights, systems and appliances Apr. 29, 1884 297,551 Edison, T. A Lights, systems and appliances Apr. 29, 1884 297,552 Edison, T. A Lights, systems and appliances Apr. 29, 1884 297,553 Edison, T. A Lights, incandescent Apr. 29, 1884 297,558 Edison, T. A Lights, incandescent Apr. 29, 1884 297,558 Edison, T. A Lights, incandescent Apr. 29, 1884 297,558 Edison, T. A Lights, incandescent Apr. 29, 1884 297,558 Edison, T. A Lights, incandescent Apr. 29, 1884 297,558 Edison, T. A Lights, incandescent Apr. 29, 1884 297,558 Edison, T. A Lights, incandescent Apr. 29, 1884 297,659 Apr. 29, 1884 297,650 Apr. 29, 1884 297,650 Apr. 29, 1884 297,651 Apr. 29, 1884 297,652 Apr. 29, 1884 297,653 Abrentehy, T. R Conductors Apr. 29, 1884 297,654 Turk, J. H. L Exploding Apr. 29, 1884 297,657 Abrentehy, T. R Conductors Apr. 29, 1884 297,659 Abrentehy, T. R Conductors A	297,338	Adams, J. S	do	Apr. 22, 1884
297,355 Greene, E. M.	297,377	Gatehouse, T. E	Lights, incandescent	Apr. 22, 1884
297,405 Jamieson, W	297,385			Apr. 22, 1884
297,433 Neveux, C. G. E	297,397			Apr. 22, 1884
297,435				Apr. 22, 1884
297,457 Shaw, W. A	297,435			Apr. 22, 1884
297,462				Apr. 22, 1884
297,463 Smith, T. L				Apr. 22, 1884
297,470 Strangways, H. B. T		Smith, T. L		Apr. 22, 1884
297,547 Wright, A. P. Conductors Apr. 29, 1884		Strangways, H. B. T		Apr. 22, 1884
297,578 Drawbaugh, D				Apr. 22, 1884
Drawbaugh D.			Tolonkonia tolonyanka alaatria	Apr. 22, 1884
297,580			do	
297,581	297,580			
297,582 Edison, T. A	297,581		Lights, systems and appliances	Apr. 29, 1884
297,584 Edison, T. A			Magneto-electric	Apr. 29, 1884
297,856		Edison, T. A	do	
297,586		Edison, T. A	Tights incondendant	
297,587		Edison, T. A	Conductors	
297,623				Apr. 29, 1884
297,626 Page, J. H.				Apr. 29, 1884
297,648 Tuck, J. H. L	297,626	Page, J. H	Conductors	Apr. 29, 1884
297,655			Boat-steering	Apr. 29, 1884
297,669 Brush, C. F Electrolysis Apr. 29, 1884				
297,677 Cottrell, H				
297,683 Doolittle, T. B.				
297,688 Guilleaume, F. C	297,683	Doolittle, T. B.	Anti-induction devices	Apr. 29, 1884
Telephonic telegraphs, relays and repeaters Apr. 29, 1884				Apr. 29, 1884
297,732 Ware, F	297,699			Apr. 29, 1884
297,751 Bunnell, J. H. Magnetic-locks Apr. 29, 1884	297,724			
297,819 Lewis, C. W Keys Apr. 29, 1884	297.751	Bunnell, J. H.		
297,820 Loder, J. H Lights, arc Apr. 29, 1884 297,833 Nungesser, P. P do Apr. 29, 1884 297,865 Sawyer, W. H Conductors, anti-inductive Apr. 29, 1884 297,866 Sperry, E. A Regulators Apr. 29, 1884 297,878 Van Depoele, C. J Magneto-electric Apr. 29, 1884 297,879 Van Hoevenbergh, H Gas-lighting Apr. 29, 1884 297,909 Bentley, E. M Telephonic telegraphs, calls Apr. 29, 1884 297,924 Gaulard, L. and Gibbs, I. D Induction-coils Apr. 29, 1884 297,926 Goebel, C. H Underground lines Apr. 29, 1884 297,927 Goebel, C. H Underground lines Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884	297,819			
297,855 Sawyer, W. H Conductors, anti-inductive Apr. 29, 1884 297,866 Sperry, E. A Regulators Apr. 29, 1884 297,867 Sperry, E. A Motors Apr. 29, 1884 297,878 Van Depoele, C. J Magneto-electric Apr. 29, 1884 297,879 Van Hoevenbergh, H Gas-lighting Apr. 29, 1884 297,924 Gaulard, L. and Gibbs, J. D Induction-coils Apr. 29, 1884 297,926 Goebel, C. H Underground lines Apr. 29, 1884 297,927 Goebel, C. H Underground lines Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884	297,820	Loder, J. H	Lights, are	Apr. 29, 1884
297,866 Sperry, E. A Regulators Apr. 29, 1884 297,867 Sperry, E. A Motors Apr. 29, 1884 297,878 Van Depoele, C. J Magneto-electric Apr. 29, 1884 297,879 Van Hoevenbergh, H Gas-lighting Apr. 29, 1884 297,909 Bentley, E. M Telephonic telegraphs, calls Apr. 29, 1884 297,924 Gaulard, L. and Gibbs, J. D Induction-coils Apr. 29, 1884 297,926 Goebel, C. H Underground lines Apr. 29, 1884 297,927 Goebel, C. H do Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884	297,833		do	Apr. 29, 1884
297,867 Sperry, E. A Motors Apr. 29, 1884 297,878 Van Depoele, C. J Magneto-electric Apr. 29, 1884 297,879 Van Hoevenbergh, H Gas-lighting Apr. 29, 1884 297,909 Bentley, E. M Telephonic telegraphs, calls Apr. 29, 1884 297,924 Gaulard, L. and Gibbs, I. D Induction-coils Apr. 29, 1884 297,926 Goebel, C. H Underground lines Apr. 29, 1884 297,927 Goebel, C. H do Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884	297,855			
297,878 Van Depoele, C. J Magneto-electric Apr. 29, 1884 297,879 Van Hoevenbergh, H Gas-lighting Apr. 29, 1884 297,909 Bentley, E. M Telephonic telegraphs, calls Apr. 29, 1884 297,924 Gaulard, L. and Gibbs, I. D Induction-coils Apr. 29, 1884 297,926 Goebel, C. H Underground lines Apr. 29, 1884 297,927 Goebel, C. H do Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884		Sperry E A		
297,879 Van Hoevenbergh, H Gas-lighting Apr. 29, 1884 297,909 Bentley, E. M Telephonic telegraphs, calls Apr. 29, 1884 297,924 Gaulard, L. and Gibbs, I. D Induction-coils Apr. 29, 1884 297,927 Goebel, C. H Underground lines Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884	297.878			
297,909 Bentley, E. M Telephonic telegraphs, calls Apr. 29, 1884 297,924 Gaulard, L. and Gibbs, J. D Induction-coils Apr. 29, 1884 297,926 Goebel, C. H Underground lines Apr. 29, 1884 297,927 Goebel, C. H do Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884	297,879		Gas-lighting	
297,924 Gaulard, L. and Gibbs, I. D. Induction-coils Apr. 29, 1884 297,926 Goebel, C. H. Underground lines Apr. 29, 1884 297,927 Goebel, C. H. do Apr. 29, 1884 297,928 Goebel, C. H. Lights, systems and appliances Apr. 29, 1884	297,909	Bentley, E. M	Telephonic telegraphs, calls	Apr. 29, 1884
297,927 Goebel, C. H Apr. 29, 1884 297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884	297,924	Gaulard, L. and Gibbs, J. D.	Induction-coils	
297,928 Goebel, C. H Lights, systems and appliances Apr. 29, 1884				
				Apr. 29, 1884

No.	Name.	CLASS.	DATE.
297,937	Johnson, W. S	Valve-controllers	Apr. 29, 1884
298,020	Page, J. H	Underground lines	May 6, 1884
298,030	Schmid, A	Applications, tools and machines	
298,072	Dorsett, D. H		
298,073 298,080	Doyle, J Gilehrist, J. D		
298,121	Ross, C. T	Thermostats	
298,130	Stockwell, L. W		
298,141		Lights, systems and appliances	
298,142	Weston, E	Lights, ineandescent	
298,143	Weston, E	do	May 6, 1884
298,144	Weston, E	do	May 6, 1884
298,175 298,179		Batteries, galvanic	
298,205	Conner, C	Chocks	
298,209	Jackson, C. H	Railway-signals	
298,242	Seiler, P	Annunciators	
298,243	Shaver, G. F	Telephonic telegraphs, systems	
298,286	Clay, H	Telephonic telegraphs, electric	
298,301	Himmer, V	Clocks	
298,325 298,326	Weston, E	Lights, incaudescent	
298,327	Weston, E	Lights, systems and appliances	
298,341	Blodgett, A. D.	Recorders	May 13, 1884
298,348	Case, W. E.	Batteries, secondary	May 13, 1884
298,357	Dodge, T. H	Lightning-rods	May 13, 1884
298,361	Erling, P. R.	Applications, general	
298,383	Howes, A. P.		
298,397 298,431	Oppenheimer, L. K	Applications, general	May 13, 1884 May 13, 1884
298,479	Kartz, A. B	Telephonic telegraphs, mechanical	May 13, 1884
298,507	Saxe, C. A	Motors	
298,531	White, L. S.		
298,550	Burke, C. G	Regulators	
298,557	Diolot, S.	Clocks	
298,559	Doolittle, T. B.	Telephonic telegraphs, systems	
298,571 298,593	Gardanier, G. W Lewis, J. S	Telegraphs, quadruplex	May 13, 1884 May 13, 1884
298,594		do	
298,658	Bergmann, S	Lights, systems and appliances	
298,663	Bonnett, C. P	Separators	May 13, 1884
298,676		Telephonic telegraphs, electric	
298,677 298,679		Lights, systems and appliances	
298,692		do	
298,751		Conductors, anti-inductive	
298,753	Hinsdale, C. C		
298,783	Seribner, C. E	Telephonie telegraphs, magnetic	May 20, 1884
298,906	Spengler, C. G.	Indicators	May 20, 1884
298,913 298,922		Railway-signals	
298,923	Waite, H. E	MotorsTelephonic telegraphs, electric	
298,924	Waite, H. E	Telephonic telegraphs, magnetie	
298,925	Waite, H. E	Telephonic telegraphs, electric	May 20, 1884
298,945	Carter, C. H	Telegraphs, fire	May 20, 1884
298,954	Edison, T. A		May 20, 1884
298,955	Edison, T. A	Populators	May 20, 1884
298,956 298,975	Edison, T. A		
298,997	Millard, O		May 20, 1884
299,011	Redding, J.	Indicators	
299,021	Sellon, R. P	Batteries, secondary, applications	May 20, 1884
299,025	Short, S. H	Lights, are	May 20, 1884
299,036	Taylor, G. W., Cox, A. R., Brown, W. C. and Sutherland, J. N	Telegraphs, fire	May 20, 1884
299,039 299,070	Vail, T. N Herzog, F. B	Telephonic telegraphs, systems	May 20, 1884 May 20, 1884
299,070	Husbands, J. D	Telephonie telegraphs, electric	May 20, 1884
299,074	Husbands, J. D	Telephonic telegraphs, magnetic	May 20, 1884
299,117	Diehl, P	Magneto-electric	May 27, 1884
299,177	Stanley, W., ir	Batteries, secondary	May 27, 1884
299,178	Stanley, W., jr	do	May 27, 1884
299,206	Deavs, C	Underground lines	
299,259	Pike, E		May 27, 1884 May 27, 1884
	Sheridan, H. B Stewart, J. N	Lights, systems and appliances	May 27, 1884

No.	Name.	Crion	Dim
	NAME.	. CLASS.	DATE.
299,328	Beehler, W. H	Recorders	May 27, 1884
299,397	Jones, E. and A. E.	Lights, arc	
299,417	O'Sullivan, M. J	Telegraphs, fire	
299,434 299,449	Starr, E. T Woodward, J. S	Batteries, secondary Underground lines	
299,467	Drake, D. E	Connectors	May 27, 1884
299,546	Hovenden, G. E. and E. R	Annunciators	June 3, 1884
299,551	Joel, H. F	Magneto-electric	June 3, 1884
299,552	Johnson, W. S.	Indicators	June 3, 1884
299,561 299,562	Lytle, H. B. and Carty, J. J.	Clocks	June 3, 1884
299,502	Lytle, H. B. and Carty, J. J. Oliver, H. W., jr.	Applications, tools and machines	June 3, 1884 June 3, 1884
299,600	Turner, T. G	Lights, are	
299,603	Warner, J. C. and E. P	Telephonic telegraphs, systems	
299,649	Keep, W. F. and W. H	Applications, general	June 3, 1884
299,664	McCausland, W. J.	Telegraphs, printing	June 3, 1884
299,700 299,708	Van Derveer, M. T. and Hegeman, J.	Separators	June 3, 1884
299,745	Welsh, A	Lights, incandescentApplications, tools and machines	June 3, 1884 June 3, 1884
299,885	Welsh, A	Lights, incandescent	June 3, 1884
299,926	Haskins, C. H	Telephonic telegraphs, systems :	June 3, 1884
299,949	Bishoprick, N. J.	Transmitters	June 10, 1884
299,968	Torre, F. D.	Telephonic telegraphs, electric	
299,970 299,992	Fenner, H. N	Telegraphs, fire	June 10, 1884
300,005	Magner, W	Underground lines	June 10, 1884 June 10, 1884
300,034	Vander Weyde, P. H.	Telegraphs	
300,035	Walenn, W. H	Electrolysis	June 10, 1884
300,052	Davis, A. G	Batteries, secondary	June 10, 1884
300,068	Gravier, A. I	Lights, systems and appliances	June 10, 1884
300,095 300,098	Lynn, M. N McCarty, W. F. M	Lights, are	June 10, 1884 June 10, 1884
300,134	Rousseau, D	Annunciators	June 10, 1884
300,139	Schisgall, S	Clocks	June 10, 1884
300,143	Scribner, C. E	Telephonic telegraphs, systems	June 10, 1884
300,144	Scrihner, C. E	do	June 10, 1884
300,154 $300,155$	Starr, E. T	Motors	June 10, 1884 June 10, 1884
300,168	Vail, T. N	Lights, systems and appliances	June 10, 1884
300,176	Wenzel, W	Batteries, galvanic	June 10, 1884
300,179	Williamson, J. J.	Conductors	June 10, 1884
300,202	Boulier, A	Indicators	June 10, 1884
300,210 300,238	Camphell, A	Underground lines	June 10, 1884
300,253	Finger, L Hazazer, E. W	Railway-signals	June 10, 1884 June 10, 1884
300,269	Lamar, J. S	Relays and sounders	
300,334	Wüest, C	Magnetic-locks	
300,338	Amet, E. H	Valve-controllers	June 17, 1884
300,341	Buckingham, C. L. and Vansize, W. B.	Telegraphs, printing	June 17, 1884
300,353 $300,403$	Farrar, J. N. and Morse, C. W Splitdorf, H	Transmitters	June 17, 1884 June 17, 1884
300,410		do	June 17, 1884
300,417	Vansize, W. B. and Buckingham, C. L	Telegraphs, printing	June 17, 1884
300,420	Watson, J. E	Regulators	June 17, 1884
300,422	West, W. A	Telephonic telegraphs, electric	
300,433 300,443	Bain, F Buell, C. E	Lights, areTransmission of power	
300,470	Hathaway, M. P	Underground lines	
300,489	Lever, C	Lights, are	June 17, 1884
300,490	Lockwood, C. S	Recorders	June 17, 1884
300,523	Starr, E. T		June 17, 1884
300,524 300,525		do	June 17, 1884
300,525 $300,532$		Cut-outs, electro-magnetic	
300,535	Van Depoele, C. J.	Magneto-electric	
300,537	Wallace, J. B.	Batteries, galvanic	June 17, 1884
300,607	Hewett, R. J	Annunciators	June 17, 1884
300,615		Magneto-electric	
300,648 300,666	Vetter, J. C. and Putnam, S. G	Motors Batteries, galvanic	
300,669	Williamson, J. J.	Conductors	
300,676	Bain, F		June 17, 1884
300,713	Knudson, A. A	Telephonic telegraphs, mechanical	June 17, 1884
300,781	Jones, F. W		June 24, 1884
300,827 300,828	Adams A W	Motors Locomotion	June 24, 1884 June 24, 1884
300,833	Bard, E. F. and Wagner, G. G	Railway-signals	
,,,,,,		2-4	

No.	NAME.	CLASS.	DATE.	
300,835 300,859 300,933 300,950 300,951 300,976 301,023 301,024 301,025 301,026 301,027 301,028 301,030 301,031 301,059 301,076	Blair, J. B Field, S. D Winch, G. L Cassel, H. R Cassel, H. R Howard, C. W Newton, F. M Weston, E	Lights, systems and appliances RegulatorsdoLights, systems and appliances Cut-outs, thermal ConductorsValve-controllers	June 24, 1884 June 24, 1884	
	· RE	ISSUES.		
10,349 10,350 10,351 10,401 10,402 10,403 10,404 10,434 10,435 10,458	Waring, R. S. and Hyde, J. B. Waring, R. S. and Hyde, J. B. Waring, R. S. Farrell, J. Farrell, J. Hyde, J. B. Hyde, J. B. Gassett, O. Gassett, O. Waring, R. S. Waring, R. S.	Conductors, reissue of 267,045 Conductors, reissue of 267,046 Conductors, reissue of 262,027 Conductors, reissue of 262,027 Conductors, reissue of 281,999 Conductors, reissue of 281,999 Railway-signals, reissue of 266,957 Linderground lines, reissue of 268,159 Underground lines, reissue of 268,159	July 3, 1883 Nov. 6, 1883 Nov. 6, 1883 Nov. 6, 1883 Nov. 6, 1883 Jan. 8, 1884 Jan. 8, 1884 Mar. 11, 1884	

APPENDIX No. III.

PART III.

CONSISTING OF AN

ALPHABETICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1883, to June 30, 1884, inclusive, giving names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.



ALPHABETICAL INDEX

OI

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1883, TO JUNE 30, 1884.

No.	- Name.	CLASS.	DATE.
292,193	Abdank-Abakanowicz, B	Magneto-electric, hand-machines	Jan. 22, 188
297,655	Abernethy, T. R	Connectors	Apr. 29, 188
295,219	Absterdam, J.		Mar. 18, 188
300.828	Adams, A. W	Locomotion	June 24, 188
282,030	Adams, I., jr	Lights, incandescent	July 31, 188
297,331	Adams, J. S	Lights, systems and appliances	Apr. 22, 188
297.332	Adams, J. S	do	Apr. 22, 188
297,333	Adams, J. S	do	Apr. 22, 188
297,334		do	Apr. 22, 188
297,335		do	Apr. 22, 188
297,336		do	Apr. 22, 188
297,336 297,337		do	Apr. 22, 188
$297.338 \pm$		do	Apr. 22, 188
296,375 285,778	Adams, J. S. and F. U	do	
285,778	Adams, W	Rheostats	
300,827	Adams, W		
283,944	Ahearn, T	Telegraphs, fire	
287,401	Ahearn, T	Recorders	
286,571	Allaire, C. B. and Johnson, C. M	Locomotion	
290,307	Allen, C. E	Telephonic telegraphs, systems	
284,794	Allen, S. M	Underground lines	
292,397	Amet, E. H	Regulators	
300,338	Amet, E. H	Valve-controllers	June 17, 188
280,707	Anders, G. L	Telephonic telegraphs, systems	July 3, 188
287,356	Anders, G. L	do	Oct. 23, 188
288,609	Anderson, H	Keys	Nov. 20, 188
289,205 296,376	Anderson, R	Telegraphs, automatic	Nov. 27, 188
296,376	Anderson, R	do	Apr. 8, 188
289,795	Anderson, R. C	Batteries, galvanic	Dec. 11, 1883
282,431	Andrews, A. W. K. and Teed, C. R	Therapeutics, electrodes	July 31, 1883
285,944	Applegate, D. H	Railway-signals	
283,058	Arnheim, M	Applications, tools and machines	Aug. 14, 1883
288,393 286,107	Arnold, C. R.	Regulators	Nov. 13, 1883 Oct. 2, 1883
293,214		RepeatersUnderground lines	Uct. 2, 1886
292,529	Ayrton, W. E. and Perry, J.	Locomotion	Feb. 12, 188-
295,094		Locomotiondo	Jan. 29, 188- Mar. 11, 188-
294,717	Ayrton, W. E. and Perry, J Bacon, M	Motors	
295,473	Bacon, M	Locomotion	Mar. 18, 1884
284,354	Bailey, H. L	Relays and sounders	Sept. 4, 1883
284,355	Bailey, H. L	Clocks	
280,708	Bain, F	Magneto-electric	
280,709	Bain, F	Lights, are	July 3, 188
283,186	Bain, F	do	
284,939	Bain, F	do	
287,608	Bain, F	Magneto-electric	Oct. 30, 188
287,609	Bain, F	do	Oct. 30, 188
287,610	Bain, F	do	Oct. 30, 1883
287,611	Bain, F	do	Oct. 30, 1883
288,395	Bain, F	Applications, tools and machines	Nov. 13, 1883
291.566	Bain, F	Regulators	Jan. 8, 188
296,380	Bain, F	Electro-magnets	Apr. 8, 1884
300,433	Bain, F	Lights, are	June 17, 188
300,676	Bain, F		June 17, 188-
291,483	Baker, W. H		Jan. 8, 188-
291.484	Baker, W. H	do	Jan. 8, 188-
287,897	Baldwin, C. W	Applications, tools and machines	Nov. 6, 1883
297,101	Baldwin, L. C. and Thurston, J. C	Insulators	Apr. 22, 188-
284,357	Dalit Will, 12. O. and Indicion, 0. O		

· No.	Name.	CLASS.	DATE.
285,547	Ball C E	Motors	Sept. 25, 1883
285,548	Ball, C. E	Magneto-electric	Sept. 25, 1883
285,549	Ball, C. E	do	Sept. 25, 1883
291,973	Ball, C. E	do	Jan. 15, 1884
294,180		do	Feb. 26, 1884
291,463 281,229	Ball, C. E. and Bradford, C. S., jr	Applications, tools and machines	Jan. 1, 1884 July 17, 1883
290,199	Ball, C. M	Magneto-electric	Dec. 18, 1883
294,719	Ball, C. M	do	Mar. 4, 1884
280,439	Ball, R. E	do	July 3, 1883
282,833		Underground lines	Aug. 7, 1883
300,833 287,495	Bard, E. F. and Wagner, G. G.	Railway-signals Applications, general	June 24, 1884 Oct. 30, 1883
284,594	Barrett, J. P	Telephonic telegraphs, systems	Sept. 11, 1883
284,595	Barrett, J. P	do	Sept. 11, 1883
290,730		do	Dec. 25, 1883
281,603		Keys	July 17, 1883
285,784 287,896	Bartlett, G. P Bartlett, S. II. and Waite, H. E	Lights, incandescent Telephonic telegraphs, magnetic	Oct. 2, 1883 Nov. 6, 1883
294,351	Bartlett, W. A	Exploding	Mar. 4, 1884
281,000	Batchelor, J. F	Telephonic telegraphs, details	July 10, 1883
288,157	Baxter, W., jr	Lights, are	Nov. 6, 1883
294,563	Beach, W. W.		Mar. 4, 1884 July 3, 1883
280,559 290,836	Beckwith, S. H Beckwith, W. C		Dec. 25, 1883
299,328	Beehler, W. H	Recorders	May 27, 1884
288,915	Beeman, J. S	Magueto-electric	Nov. 20, 1883
291,464	Beeman, J. S	Lights, incandescent	Jan. 1, 1884
292,403 288,963	Beeman, J. S., Taylor, W. and King, F		Jan. 22, 1884 Nov. 20, 1883
291,465	Beeman, J. S., Taylor, W. and King, F	Batteries, secondary, applications	Jan. 1, 1884
284,365	Beidler, H. M	Car-brakes	Sept. 4, 1883
294,842 283,747	Belcher, W. A	Magnetic-locks Telephonic telegraphs, systems	Mar. 11, 1884 Aug. 28, 1883
287,089	Bendix, J.		Oct. 23, 1883
293,136	Benjamin, P	Telephonic telegraphs, details	Feb. 5, 1884
288,971	Benson, G. T.		Nov. 27, 1883
297,909 288,916	Bergmann S	Telephonic telegraphs, calls Batteries, galvanic	Apr. 29, 1884 Nov. 20, 1883
293,552		Lights, systems and appliances	Feb. 12, 1884
293,553		do	Feb. 12, 1884
298,658 285,102		Telephonic telegraphs, electric	May 13, 1884 Sept. 18, 1883
291,866	Berliner, E	do	Jan. 15, 1884
280,340	Bernstein, A	Lights, incandescent	July 3, 1883
280,341	Bernstein, A		July 3, 1883
283,748 284,714		Lights, systems and appliancesCut-outs, thermal	Aug. 28, 1883 Sept. 11, 1883
284,715		Circuit-closers	Sept. 11, 1883
284,999	Bernstein, A		Sept. 18, 1883
286,577 295,334	Bernstein, ABerry, W. and Stuart, P	Anti-induction devicesUuderground lines	Oct. 16, 1883 Mar 18 1884
299,949	Bishoprick, N. J	Transmitters	Mar. 18, 1884 June 10, 1884
300,835	Blair, J. B	Magneto-electric	June 24, 1884
295,223	Blake, F	Telephonic telegraphs, systems	Mar. 18, 1884
283,062	Blake, F., jr Blake, J. E. and Hall, C. A	Telephonic telegraphs, electric	Aug. 14, 1883 Oct. 16, 1883
286,581 296,812	Blake, S. N.	Alarms Circuit-closers	Apr. 15, 1884
291,867	Blamires, T. H	Lights, incandescent	Jan. 15, 1884
298,341	Blodgett, A. D.	Recorders	May 13, 1884
284,114	Blodgett, A. D., Read, R. M. and Tirrell, J. P. Body, M	IndicatorsElectrolysis	Aug. 28, 1883 Jan. 8, 1884
291,670 282,043	Bogart, A. L	Gas-lighting	July 31, 1883
290,732	Bogart, A. L	Cnt-outs, electro-magnetic	Dec. 25, 1883
292,785	Bogart, A. L		Feb. 5, 1884
292,786 298,663	Bogart, A. L Bonnett, C. P	Alarms, burglar	Feb. 5, 1884 May 13, 1884
295,614	Boothby, J. W	Locomotion	Mar. 25, 1884
288,402	Borodoulin, N	Indicators	Nov. 13, 1883
286,680	Botts, B. N	Telephonic telegraphs, mechanical	Oct. 16, 1883
289,966 300,202	Bouilly, ABoulier, A	Exploding	Dec. 11, 1883 June 10, 1884
284,171	Boulton, W. H	Lights, systems and appliances	Sept. 4, 1883
285,004	Bowen, W. J	Telephonic telegraphs, mechanical	Sept. 18, 1883
286,681	Bowen, W. J	Insulators	Oct. 16, 1883
288,202	Bowen, W. J	Bells	Nov. 13, 1833

ALPHABETICAL INDEX—ELECTRICITY.

No.	Name.	CLASS.	DATE.
290,844	Bowman, C. M	Connectors	Dec. 25, 1883
293,938	Boyd, D	Telephonic telegraphs, calls	Feb. 19, 1884
287,800	Brackett, C. F	Magneto-electric	Nov. 6, 1883
293,556	Bradbury, W	Motors	Feb. 12, 1884
280,563	Bradley, C. S	Meters	July 3, 1883
287,501 291,141	Bradley, C. S.	Regulators	Jan. 1, 1884
287,617	Brainerd, H. C	Applications, general	Oct. 30, 1883
287,617 287,221	Brasher, T. M	Exploding	Oct. 23, 1883
290,845	Breckenridge, H. W.	Switches	Dec. 25, 1883
282,489	Breen, T	Telegraph-poles	Aug. 7, 1883
287,092	Brennan, J. W. and Rousseau, N	Conductors	
291,286 291,871	Brewer, H. J	Batteries, galvanic	Jan. 1, 1884 Jan. 15, 1884
284,805	Brewtnall, A. W	Lights, systems and appliances	Sept. 11, 1883
287,618	Brigel, L. A	Circuit-closers	Oct. 30, 1883
283,200	Brissett, H. R. and Howe, J.	Conductors	Aug. 14, 1883
282,699	Brock, W. M.	Telephonic telegraphs, systems	Aug. 7, 1883
295,905	Brott, G. F	Telegraph-poles	Apr. 1, 1884
291,288	Brown, A. T	Applications, tools and machines	Jan. 1, 1884 Sept. 11, 1883
284,808 288,002	Brown, F. W	Alarms, burglar	Nov. 6, 1883
281,175	Brush, C. F	Batteries, secondary, applications	July 10, 1883
281,176	Brush, C. F	do	July 10, 1883
285,457	Brush, C. F	Magneto-electric	Sept. 25, 1883
286,259	Brush, C. F	Batteries, secondary	Oct. 9, 1883
297,669	Brush, C. F	Electrolysis	Apr. 29, 1884
293,561 $285,107$	Buck, H. C.—————————————Bucker, R.————————————————————————————————————	Telephonic telegraphs, electric Lights, arc	Feb. 12, 1884 Sept. 18, 1883
294,307	Buckingham, C. L	Regulators	Feb. 26, 1884
293,943	Buckingham, C. L. and Townsend, H. C	Cut-outs, electro-magnetic	Feb. 19, 1884
293,944	Buckingham, C. L. and Townsend, H. C.	do'	Feb. 19, 1884
296,125		do	Apr. 1, 1884
300,341	Buckingham, C. L. and Vansize, W. B.		June 17, 1884
292,625 280,715	Buckley, W. F Buell, C. E		Jan. 29, 1884 July 3, 1883
280,906	Buell, C. E		July 10, 1883
285,459		do	Sept. 25, 1883
286,529	Buell, C. E	Annunciators	Oct. 9, 1883
294,008	Buell, C. E	Telegraphs, fire	Feb. 26, 1884
294,308	Buell, C. E.	do	Feb. 26, 1884
300,443 293,626	Buell, C. E. Bunker, A. S.	Transmission of power	June 17, 1884 Feb. 19, 1884
297,751	Bunnell, J. H	Magnetic-locks	Apr. 29, 1884
295,855	Burke, C. G	Telegraphs, dial	Mar. 25, 1884
298,550	Burke, C. G	Regulators	May 13, 1884
285,008	Burke, J. T	Applications, tools and machines	Sept. 18, 1883
284,605	Burns, H. A	Batteries, galvanic	Sept. 11, 1883
282,157 282,158	Burton, G. D.	Lights, systems and appliances	July 31, 1883 July 31, 1883
282,841	Busteed, R.	Telephonic telegraphs, systems	Aug. 7, 1883
294,116		Railway-signals	Feb. 26, 1884
281,339	Calahan, E. A. and Delany, P. B	Telegraphs, multiplex	July 17, 1883
291,575		Applications, tools and machines	
297,111 300,210	Campbell A	do	Apr. 22, 1884 June 10, 1884
290,853	Campbell, H. F.	Underground lines	Dec. 25, 1883
290,854	Campbell, H. F	do	Dec. 25, 1883
290,971	Campbell, H. F	do	Dec. 25, 1883
283,073	Capron, J	Annunciators	Aug. 14, 1883
281,613		Telephonic telegraphs, systems	July 17, 1883
294,195 287,096		Indicators	Feb. 26, 1884 Oct. 23, 1883
298,945		Therapeutics, body-wear Telegraphs, fire	May 20, 1884
292,096	Carter, G. W. L	Separators	Jan. 15, 1884
288,691		Telephonic telegraphs, calls	Nov. 20, 1883
281,450	Cary, J. H	do	July 17, 1883
281,614		do	July 17, 1883
285,342 289,386	Case W E	Batteries, secondary	Sept. 18, 1883 Dec. 4, 1883
292,469	Case, W. E.	Batteries, secondary	Jan. 29, 1884
293,348		do	May 13, 1884
300,950	Cassel, H. R.		June 24, 1884
300,951	Cassel, H. R.	Electrolysis	June 24, 1884
296,676 289,890	Chambers J. C.	Telephonic telegraphs, electric	Apr. 8, 1884 Dec. 11, 1883
289,891	Chambers, J. C.	Underground lines	T 44 4000
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No.	Name.	Class.	DATE.
281,452	Chapman, T. L	Insulators	July 17, 1883
282,165	Cheever, C. A	Locomotion	July 31, 1883
281,240 291,684	Cheever, J. H		July 17, 1883 Jan. 8, 1884
292,203	Cheever, J. H		Jan. 22, 1884
280,578	Chester, W. F	Alarms, burglar	July 3, 1883
294,851 $287,236$	Childs, W. A. and Shaw, F		Mar. 11, 1884 Oct. 23, 1883
287,237	Clark, E		
289,620	Clark, J. W	Telephonic telegraphs, mechanical	Dec. 4, 1883
284,382 285,572	Clarke, C. L		Sept. 4, 1883
298,175	Clarke, C. L		Sept. 25, 1883 May 6, 1884
293,563	Clarke, C. L. and Leigh, J	do	Feb. 12, 1884
280,351	Clay, H		
280,451 $280,580$	Clay, H		
288,017	Clay, H	do	Nov. 6, 1883
298,286	Clay, H.	do	May 6, 1884
284,277 288,310		Magneto-electric Underground lines	
288,311	Cobb. H. B.	do	Nov. 13, 1883
293,632	Cobb, H. B.	do	Feb. 19, 1884
294,365 290,209		Railway-signals	Mar. 4, 1884 Dec. 18, 1883
296,729	Conant, G. P		Apr. 15, 1884
285,799	Conly, M. S		Oct. 2, 1883
298,179 $291,299$	Conner, C		May 6, 1884 Jan. 1, 1884
295,356	Connolly, T. A		Mar. 18, 1884
295,983	Cook, F. B. and Graves, F. F	do	Apr. 1, 1884
299,745 281,839	Cooke, F. C		June 3, 1884 July 24, 1883
286,393	Copeland, F. A	Telegraphs, fire	Oct. 9, 1883
292,992	Cornelius, O. H. P. and Turner, G. H	Thermostats	Feb. 5, 1884
289,233 297,677	Corwin, W. S		Nov. 27, 1883 Apr. 29, 1884
286,268	Cowell, E. R. E	Telegraphs, railway-car	Oct. 9, 1883
281.841	Cowles, A. A	Conductors	July 24, 1883
292,539 295,232	Cowles, A. A.	do	Jan. 29, 1884 Mar. 18, 1884
286,181		Clocks	
288,623	Crane, A. S	do	Nov. 20, 1883
281,672 $281,345$	Crocker, F. B., Curtis, C. G. and Wheeler, S. S. Crockett, C. H.	Locomotion	July 24, 1883 July 17, 1883
280,800	Crossley, L. J	Telephonic telegraphs, magnetic	July 10, 1883
292,542	Crossley, L.J., Emmott, W. and Harrison, J. F.	Telephonic telegraphs, calls	Jan. 29, 1884
293,426 283,759	Cushing, F. W	Meters Locomotion Locomotion	Feb. 12, 1884 Aug. 28, 1883
283,760		Conductors	Aug. 28, 1883
283,761	Daft, L	Locomotion	Aug. 28, 1883
289,895 289,896		do Car-brakes	Dec. 11, 1883 Dec. 11, 1883
289,897	Daft, L	Locomotion	Dec. 11, 1883
295,365	Davis, A. G	Telephonic telegraphs, systems	Mar. 18, 1884
300,052 290,752	Davis, A. G.	Batteries, secondary Telegraph-poles	Dec. 25 1883
294,371	Davis, G. W	Recorders	Mar. 4, 1884
296,146	Davis, W. H	Underground lines	Apr. 1, 1884
299,206 293,851	De Castro, I. W.	Applications, tools and machines	May 27, 1884 Feb 19 1884
282,446	De Ferranti, S. Z. and Thompson, A	Magneto-electric	July 31, 1883
282,447	De Ferranti, S. Z. and Thompson, A	Meters	July 31, 1883
288,315 288,316		Regulators	Nov. 13, 1883 Nov. 13, 1883
287,641		Batteries, galvanic	Oct. 30, 1883
283,763	Delany, P. B	Conductors	Aug. 28, 1883
283,764 286,273	Delany P B	Telegraphs, multiplex	Aug. 28, 1883 Oct. 9, 1883
286,274	Delany, P. B	Telegraphs, multiplex	Oct. 9, 1883
286,275	Delany, P. B	do	Oct. 9, 1883
286,276 286,277		do	
286,278	Delany, P. B	do	Oct. 9, 1883
286,279	Delany, P. B	Telegraphs, duplex	Oct. 9, 1883
286,280 286,281	Delany, P. B	Telegraphs, multiplex	Oct. 9, 1883 Oct. 9, 1883
200,201	Domay, I. D	Telegraphis, multiplex	0, 1000

ALPHABETICAL INDEX—ELECTRICITY.

No.	Name.	CLASS.	Дате.
	A. A.A.A.A.I	Care	
286,282	Delany, P. B	Telegraphs	Oct. 9, 1883
290,753 282,964	Delaplaine, J. L., Hendrickson, J. G. and	Applications, general	Dec. 25, 1883 Aug. 14, 1883
20-,004	Clamer, F. J.	Applications, general	714g. 14, 100e
296,148	Delmage, W. A	Applications, tools and machines	Apr. 1, 1884
287,914 285,977	Dement, M. H. Dennis, J. W.	Transmitters Therapeutics, hody-wear	Nov. 6, 1883 Oct. 2, 1883
295,367	Dennis, T. L	Lights, are	
295,368	Dennis, T. L	Magneto-electric	Mar. 18, 1884
288,033 286,397	Detrick, C	Underground lines Lights, systems and appliances	Nov. 6, 1883 Oct. 9, 1883
282,861	D'Humy, P. R. deF	Lights, incandescent	Aug. 7, 1883
299,117	Diehl, P	Magneto-electric	May 27, 1884
291,310	Dillon, B. F	Alarms, burglar	
281,249 298,557	Diolot, S	Telegraphs, quadruplex	July 17, 1883 May 13, 1884
282,449	Dodge, T. H	Lightning-rods	July 31, 1883
289,076	Dodge, T. H	do	Nov. 27, 1883
298,357 $288,215$	Dodge, T. H Dolbear, A. E	Telephonic telegraphs, electric	May 13, 1884 Nov. 13, 1883
295,371	Doolittle, G	Connectors	Mar. 18, 1884
289,077	Doolittle, G. and Stanley, H. D.	Conductors	Nov. 27, 1883
297,683 298,559	Doolittle, T. B	Anti-induction devices Telephonic telegraphs, systems	
298,072	Dorsett, D. H.	Insulators	
291,996	Dorsett, D. H., Morris, J. E. and Williams, B.	Underground lines	Jan. 15, 1884
298,073 285,589	Doyle, W. L	RheostatsRailway-signals	
280,916	Drake, C. C	Lightning-arresters	
299,467	Drake, D. E	Connectors	May 27, 1884
287,111	Drawbaugh, D		Oct. 23, 1883
290,978 290,979	Drawbaugh, D		Dec. 25, 1883 Dec. 25, 1883
290,980	Drawbaugh, D.	Telephonic telegraphs, electric	Dec. 25, 1883
291,311	Drawhaugh, D.	do	Jan. 1, 1884
291,312 291,472	Drawbaugh, D	do	Jan. 1, 1884 Jan. 1, 1884
293,154	Drawhaugh, D.	Telephonic telegraphs, magnetic	
295,741	Drawbaugh, D.	Telephonic telegraphs, electric	Mar. 25, 1884
295,742 297,578		do	Mar. 25, 1884 Apr. 29, 1884
297,579	Drawbaugh, D.	do	Apr. 29, 1884
298,676	Drawhaugh, D.	do	May 13, 1884
298,677 288,555		Underground lines	May 13, 1884 Nov. 13, 1883
281,471	Drysdale, W. A.	Gas-lighting	July 17, 1883
287,509	Du Bois, J. S.	Underground lines	
295,913 288,556	Dudley, W. J		Apr. 1, 1884 Nov. 13, 1883
280,365	Dunand, A		
280,366	Dunham, T. H	Conductors	July 3, 1883
286,595 297,072	Durant, G. F Durhrow, G. W		Oct. 16, 1883 Apr. 15, 1884
230,919	Du Shane, J	Underground lines	July 10, 1883
290,550	Du Shane, J	Magneto-electric	Dec. 18, 1883
296,319 287,647		Car-brakes Lightning-arresters	
289,629	Dyer, J. W	do	Dec. 4, 1883
239,630	Dyer, J. W.	Cut-outs, electro-magnetic	Dec. 4, 1883
292,796 287,757		Telegraphs, fire	Feb. 5, 1884 Oct. 30, 1883
287,758		Heaters	
294,455	Earle, H. A. and Goltstein, E	Lights, are	Mar. 4, 1884
290,551 289,631		Magneto-electric Batteries, thermal	
292,161		Meters	Jan. 22, 1884
292,212	Eckert, W. H	Telephonic telegraphs, electric	Jan. 22, 1884
282,867 $288,627$		Telephonic telegraphs, systems	
288,320	Eckert, W. H., Seely, J. A. and Eckert, E. A.	do	Nov. 13, 1883
280,727	Edison, T. A	Lights, systems and appliances	July 3, 1883
281,349 281,350	Edison, T. A	Regulators	July 17, 1883
281,350	Edison, T. A	Magneto-electric	July 17, 1883
281,352	Edison, T. A	Meters	July 17, 1883
281,353 282 287	Edison, T. A	Magneto-electric Magneto-electric, hand-machines	July 17, 1883
282,287	Edison, T. A	Magneto-electric, hand-machines	July 31, 1

No.	NAME.	CLASS.	DATE.
283,983		Lights, systems and appliances	Aug. 28, 1883
283,984	Edison, T. A	do	Aug. 28, 1883
283,985 283,986	Edison, T. A	dodo	Aug. 28, 1883
287,511	Edison, T. A	Regulators	Aug. 28, 1883 Oct. 30, 1883
287,512	Edison, T. A	Magneto-electric	
287,513	Edison, T. A	do	Oct. 30, 1883
287,514		do	
287,515 287,516	Edison, T. A	Lights, systems and appliances	
287,517	Edison, T. A		
287,518	Edison, T. A		
287,519		do	
287,520	Edison, T. A	Magneto-electric	
287,521 $287,522$		Lights, systems and appliances	Oct. 30, 1883 Oct. 30, 1883
287,523		do	Oct. 30, 1883
287,524		Regulators	Oct. 30, 1883
288,318	Edison, T. A	do	Nov. 13, 1883
293,432	Edison, T. A	Magneto-electric	Feb. 12, 1884
293,433 293,434		Conductors Lights, incandescent	Feb. 12, 1884 Feb. 12, 1884
293,434	Edison, T. A	Meters	Feb. 12, 1884
297,580	Edison, T. A	Lights, arc	Apr. 29, 1884
297,581	Edison, T. A	Lights, systems and appliances	Apr. 29, 1884
297,582	Edison, T. A		Apr. 29, 1884
297,583 297,584		do	Apr. 29, 1884 Apr. 29, 1884
297,585	Edison, T. A	Lights, incandescent	Apr. 29, 1884
297,586	Edison, T. A	Conductors	Apr. 29, 1884
297,587	Edison, T. A	Magneto-electric	Apr. 29, 1884
298,679	Edison, T. A	Lights, systems and appliances	May 13, 1884
298,954 298,955	Edison, T. A	Magneto-electricdo	May 20, 1884
298,956		Regulators	May 20, 1884 May 20, 1884
287,525	Edison, T. A. and Clarke, C. L	Lights, systems and appliances	Oct. 30, 1883
288,217	Edmunds, H., jr	Lights, incandescent	Nov. 13, 1883
288,218	Edmunds, H., jr	Lildo	Nov. 13, 1883
290,406 290,407	Edmunds, H., Jr	Lights, systems and appliances	Dec. 18, 1883 Dec. 18, 1883
291,170		Conductors	Jan. 1, 1884
291,171	Edmunds, H., ir	Lights, incandescent	Jan. 1, 1884
281,985	Edwards, E. A	Magneto-electric	July 24, 1883
282,969 286,796	Egan, C.	Telephonic telegraphs, electric Conductors	Aug. 14, 1883
293,956	Eils. B. E. J	Telegraphs, quadruplex	Oct. 16, 1883 Feb. 19, 1884
284,288		Magneto-electric	Sept. 4, 1883
288,042	Elphinstone, W. B. F. and Vincent, C. W	do	Nov. 6, 1883
287,649		Recorders	
298,361 294,021	Erling, P. K.	Applications, general Separators	May 13, 1884 Feb. 26, 1884
292,999	Fairbanks, L. S		Feb. 5, 1884
285,602	Farmer, M. G	Batterics, secondary, applications	Sept. 25, 1883
290,873		do	Dec. 25, 1883
281,478 294,212	Farnham, I. H		July 17, 1883 Feb. 26, 1884
300,353	Farnham, I. H	Annunciators	June 17, 1884
287,812	Felton, L. E	Batteries, galvanic	Nov. 6, 1883
285,245	Fenn, J. E	Telephonic telegraphs, systems	Sept. 18, 1883
299,970	Fenner, H. N	Telegraphs, fire	June 10, 1884
282,294 282,295	Field S D	Telegraphs, dynamodo	July 31, 1883 July 31, 1883
282,296		do	July 31, 1883
282,297	Field, S. D	Magneto-electric	July 31, 1883
287,265	Field, S. D	Telegraphs, printing	Oct. 23, 1883
287,266		do	Oct. 23, 1883 Oct. 23, 1883
287,267 288,786		Telegraphs, dynamo	Nov. 20, 1883
290,556	Field, S. D	Telegraphs, printing	Dec. 18, 1883
290,557	Field, S. D	do	Dec. 18, 1883
290,635	Field, S. D	do	Dec. 18, 1883
291,317 291,318	Field S. D.	Underground lines	Jan. 1, 1884 Jan. 1, 1884
291,318 291,705	Field, S. D	Telegraphs, printing	Jan. 8, 1884
293,959	Field, S. D	do	Feb. 19, 1884
300,859		do	June 24, 1884
285,983	Finch, R. S		

No.	Name.	CLASS.	DATE.
300,238	Finger, L	Railway-signals	June 10, 1884
290,558	Finn, J. L	Lightning-rods	Dec. 18, 1883
285,353	Finney, J. R	Locomotion	
283,334	Firman, L. B	1	Aug. 14, 1883
295,531	Fish, G. W	Tolography dial	Mar. 25, 1884
285,805 286,801	Fiske, B. A. and Mott, S. D	Telegraphs, dial Insulators	Oct. 2, 1883 Oct. 16, 1883
285,249	Fitch, F. K	Magneto-electric	
292,293	Fitch, F. K	Lights, are	
293,441	Fitch, F. K	Magneto-electric	Feb. 12, 1884
286,916	Fitz Gerald, D. G.	Lights, incandescent	
296,546	Flad, H	Car-brakes	
296,547	Flad, H	Connectors	
296,549 284,289	Flad, HFleming, J. A		
283,590	Flint, E., jr		
284,457	Fottrell, J		
281,859	Fox, E	Locomotion	July 24, 1883
285,807	Fox, St. G. L		Oct. 2, 1883
281,680	Frank, C. H.		
281,048	Frasch, H		July 10, 1883
286,288 286,917	Fraser A C		
280,917	Fraser, A. C.———————Freeman, W. P.——————————————————————————————————		
287,654	Freeman, W. P	Indicators	Oct. 30, 1883
289,823	Freeman, W. P.		
290,025	Freeman, W. P.	Regulators	Dec. 11, 1883
294,027	Freeman, W. P.		
289,768	Freund, G		Dec. 4, 1883
295,534		Magueto-electric	
286,414 286,415	Fuller G W	do	Oct. 9, 1883 Oct. 9, 1883
286,416	Fuller, G. W	do	Oct. 9, 1883
294,458	Fuller, G. W	do	Mar. 4, 1884
283,995	Gardanier, G. W.	Telegraphs, quadruplex	Aug. 28, 1883
298,571	Gardanier, G. W	do	May 13, 1884
287,015	Gardner, W. F	Clocks	Oct. 23, 1883
282,879 291,590	Garrett, D	Railway-signals	Aug. 7, 1883
283,231	Gassett O	do	Jan. 8, 1884 Aug. 14, 1883
283,232		do	Aug. 14, 1883
289,827		do	
292,743	Gassett, O	do	Jan. 29, 1884
292,744	Gassett, O	do	Jan. 29, 1884
293,571	Gassett, O	Bells	Feh. 12, 1884
294,030 284,409	Gatahouse T. F.	Railway-signals Lights, incandescent	Feb. 26, 1884 Sept. 4, 1883
297,377		do	Apr. 22, 1884
297,924	Ganlard, L. and Gihhs, J. D.	Induction-coils	Apr. 29, 1884
282,187	Giel. F. S	Regulators	July 31, 1883
281,262	Gilbert, J. W. and Starr, E. T	Batteries, galvanic	July 17, 1883
298,080	Gilchrist, J. D.	Annunciators	May 6, 1884
289,642	Giles, U. K.	Applications, general	Dec. 4, 1883
281,052 $287,661$	Gileg J. E.	Magneto-electric	July 10, 1883 Oct. 30, 1883
288,051	Giles, J. E	do	Nov. 6, 1883
288,790		Underground lines	
290,412	Giles, J. E	Regulators	Dec. 18, 1883
293,318	Giles, J. E	Lights, systems and appliances	Feb. 12, 1884
296,829	Gillett, W	Telephonic telegraphs, electric	Apr. 15, 1884
293,160	Gilliland, E. T		Feb. 5, 1884
293,161 293,162	Gilliland, E. T	Telcphonic telegraphs, systems	Feb. 5, 1884 Feb. 5, 1884
296,330	Gilliland, J. F.	Telephonic telegraphs, mechanical	Apr. 8, 1884
296,401	Gillon, L	Applications, tools and machines	Apr. 8, 1884
288,629	Gilman, C. C	Underground lines	Nov. 20, 1883
281,864	Gilpin, J. F	Conductors	July 24, 1883
287,532	Goddard, C	Underground lines	Oct. 30, 1883
287,533	Goddard, C	do	Oct. 30, 1883
290,413 290,414	Goebal C H	do	Dec. 18, 1883 Dec. 18, 1883
290,415		do	Dec. 18, 1883
290,416		do	Dec. 18, 1883
297,926	Goebel, C. H	do	Apr. 29, 1884
297,927	Goebel, C. H	do	Apr. 29, 1884
297,928	Goebel, C. H	Lights, systems and appliances	Apr. 29, 1884
297,929	Goebel, C. H	Underground lines	Apr. 29, 1884

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No.	NAME.	CLASS.	DATE.
296,160	Goodbody, A. G	Connectors	Apr. 1, 1884
281,224	Goodsell, B. H., Adamson, C., and Hering, C. O.	Applications, tools and machines	July 10, 1883
284,292	Gordon, J. E. H	Magneto-electric	
287,664 $294,613$	Gramme, Z. T	AnnunciatorsMagneto-electric	
300,068	Gravier, A. I	Lights, systems and appliances	
284,003	Gray, E. and Pope, F. L	Telephonic telegraphs, calls	Aug. 28, 1883
290,769 $285,027$	Gray, G Gray, J	Conductors, anti-inductive Magneto-electric	
284,413	Green, I. M. aud Birch, J. P	Underground lines	Sept. 4, 1883
297,385 $291,716$	Greenc, E. M. Greives, J.	Cut-outs, electro-magnetic	
291,717	Greives, J.	do	
291,718	Greives, J.	Conductors and industrial	Jan. 8, 1884
291,715 $282,073$	Greives, J. and Blooo, J. H Greve, H	Conductors, anti-inductive	Jan. 8, 1884 July 31, 1883
296,407	Griffin, J	Lightning-arresters	Apr. 8, 1884
282,884 297,688	Guest, J. H.——————————————————————————————————	Lights, systems and appliances Conductors, anti-inductive	Aug. 7, 1884 Apr. 29, 1884
296,331	Gumpel, C. G	Batteries, secondary	Apr. 8, 1884
291,721	Hadden, W	Railway-signals	
286,809 294,463	Haid, A	Batteries, secondary	Oct. 16, 1883 Mar. 4, 1884
294,464	Haid, A	do	Mar. 4, 1884
294,465 296,164		do	Mar. 4, 1884 Apr. 1, 1884
296,558	Haines, D. S. and Lake, S. D.	Insulators	Apr. 8, 1884
296,688	Haines, D. S. and Lake, S. D.	do	Apr. 8, 1884
293,242 294,384	Hale, A. W	do	Feb. 12, 1884 Mar. 4, 1884
284,959	Halkvard, W	Conductors	Sept. 11, 1883
289,092 284,840	Halkyard, W	Railway-signals	Nov. 27, 1883 Sept. 11, 1883
284,841	Hall, A. W	do	Sept. 11, 1883
284,842	Hall, A. W	Applications, general	Sept. 11, 1883 July 31, 1883
282,190 288,175	Hamblet, J.	Clocks	Nov. 6, 1883
288,795	Hamon, A. H	Conductors	Nov. 20, 1883
285,615 $292,806$	Hanson, J. P. and Christensen, J. P.	IncrustationAlarms, burglar	Sept. 25, 1883 Feb. 5, 1884
292,807	Hanson, J. P. and Christensen, J. P.	do	Feb. 5, 1884
289,411 $289,649$	Happersberger, F————————————————————————————————————	AnnunciatorsApplicatious, general	Dec. 4, 1883 Dec. 4, 1883
298,751	Harrington, F. S.	Conductors, anti-inductive	May 20, 1884
280,616	Harris, W. P Hart, L. II	Recorders Kcvs	
281,362 284,297	Hartwell, N. W	Telegraphs	Sept. 4, 1883
283,482	Haskins, C. D	Lights, are	Aug. 21, 1883
286,923 293,171	Haskins, C. D	Telephonic telegraphs, electric Telephonic telegraphs, systems	Oct. 16, 1883 Feb. 5, 1884
299,926	Haskins, C. H	do	June 3, 1884
290,182 300,470		SeparatorsUnderground lines	Dec. 11, 1883 June 17, 1884
286,925	Hauss, D.J., McNaiuara, T. E. and Zerbe, J. S.	Lights, are	Oct. 16, 1883
292,113	Haves, C. H.	do	Jan. 15, 1884
282,634 300,253	Hazazer, E. W	Batteries, galvanicBells	Aug. 7, 1883 June 10, 1884
294,128	Healy, Ó	Applications, general	Feb. 26, 1884
281,363 284,420	Hedges, K. W.	Lights, systems and appliances	July 17, 1883 Sept. 4, 1883
280,472	Helman, O. A	Alarms, burglar	July 3, 1883
293,735 294,618		Applications, tools and machines	Feb. 19, 1884 Mar. 4, 1884
281,064	Hendley, W	Underground lines	July 10, 1883
281,220	Hendley, W	do	July 10, 1883 Oct. 16, 1883
286,698 295,249	Henry, J. C	Conductors Telegraphs, fire	Mar. 18, 1884
293,613	Herotizky, G M	Clocks	Feb. 12, 1884
280,474 289,834	Herrmann, L. A. F Herzog, F. B	Conductors	July 3, 1883 Dec. 11, 1883
292,115	Herzog, F. B	Annunciators	Jan. 15, 1884
299,070 288,570	Herzog, F. B	Telephonic telegraphs, systems Telegraphs, fire	May 20, 1884
300,607	Hewett, R. J	Annunciators	June 17, 1884
281,877	Hewitt, R., jr	ThermostatsLightning-rods	July 24, 1883
287,286	Hewitt, W	Tughthing-todo	Oct. 20, 1000

No.	Name.	CLASS.	DATE.
287,929	Hewitt, W	Lightning-rods	Nov. 6, 1883
293,736	Hibbard, A. S	Telephonic telegraphs, systems	Feb. 19, 1884
297,397	Hildebrand, E. O	Underground lines	Apr. 22, 1884
295,759	Hill, J	Telegraphs, fire	Mar. 25, 1884
295,760 292,310	Hill, J Himmer, I. C	ThermostatsBatteries, galvanic	Mar. 25, 1884 Jan. 22, 1884
298,205	Himmer, I. C. and Weisgerber, W. F	Clocks	May 6, 1884
294,131	Himmer, V	do	Feb. 26, 1884
294,132	Himmer, V	do	Feb. 26, 1884
298,301	Himmer, V	do	May 6, 1884
282,317	Hinds, C. H		July 31, 1883
282,318		Coalishting	July 31, 1883
282,890 291,731	Hinds, C. H		Aug. 7, 1883 Jan. 8, 1884
287,830	Hinsdale, C. C	Insulators	Nov. 6, 1883
298,753	Hinsdale, C. C		May 20, 1884
292,311	Hinton, J. R. H	Telegraphs, fire	Jan. 22, 1884
286,437	Hirley, J. V	Conductors	Oct. 9, 1883
298,692	Hoag, G. M		May 13, 1884
294,038	Hochhausen, W	Regulatorsdo	Feb. 26, 1884
294,039 294,040	Hochhausen W	do	Feb. 26, 1884 Feb. 26, 1884
294,041	Hochhausen, W	do	Feb. 26, 1884
294,042	Hochhausen, W		Feb. 26, 1884
294,043	Hochhausen, W.	Magneto-electric	Feb. 26, 1884
294,044	Hochhausen, W	Lights, incandescent	Feb. 26, 1884
294,045	Hochhausen, W.	Lights, systems and appliances	Feb. 26, 1884
295,552 287,678	Hochhausen, W	Regulators Magneto-electric	Mar. 25, 1884 Oct. 30, 1883
282,319	Holbrook, Z. S.	Locomotion	July 31, 1883
284,423	Hollingshead, W. B.	de a	Sept. 4, 1883
282,521	Holtzer, C. W	Lights, incandescent	Aug. 7, 1883
289,837	Holzer, W	Lights, systems and appliances	Dec. 11, 1883
289,838		do	Dec. 11, 1883
293,879		do	Feb. 19, 1884
295,398 291,478	Horner, J. W	Underground lines	Mar. 18, 1884 Jan. 1, 1884
283,343	Houston, E. J		Aug. 14, 1883
286,612	Houston, E. J	do	Oct. 16, 1883
296,569	Houston, E. J. and Thomson, E.	do	Apr. 8, 1884
299,546	Hovenden, G. E. and E. R	Annunciators	June 3, 1884
285,267	How, W. S	Underground lines	Sept. 18, 1883
300,976	Howard, C. W		June 24, 1884
292,433 298,383	Howell, T. J	Batteries, galvanic Telephonic telegraphs, calls	Jan. 22, 1884 May 13, 1884
291,849	Howson, H	Underground lines	Jan. 8, 1884
284,425	Huck, C	Conductors, anti-inductive	Sept. 4, 1883
284,426	Huck, C		Sept. 4, 1883
287,380	Hughes, C. T	Heaters	Oct. 23, 1883
298,975	Hunter, J	Telegraph-poles	May 20, 1884
299,073	Husbands, J. D		May 20, 1884
299,074 285,269	Huston H E	Telephonic telegraphs, magnetic Telephonic telegraphs, mechanical	May 20, 1884 Sept. 18, 1883
294,238	Huston, H. E	do	Feb. 26, 1884
281,999		Conductors	July 24, 1883
284,854	Hyde, J. B	Underground lines	Sept. 11, 1883
284,855	Hyde, J. B	do	Sept. 11, 1883
290,057		Conductors	Dec. 11, 1883
290,058 290,881	Hyde, J. B.	do	Dec. 11, 1883 Dec. 25, 1883
289,539		Telephonic telegraphs, systems	Dec. 25, 1883
289,540	Jackson, C. A.	Motors	Dec. 4, 1883
289,541	Jackson, C. A	do	Dec. 4, 1883
298,209	Jackson, C. H	Railway-signals	May 6, 1884
287,288	Jacob, F		Oct. 23, 1883
297,406	Jamieson, W		Apr. 22, 1884
293,330 299,551	Jenkins, E. H		Feb. 12, 1884 June 3, 1884
295,644	Johnson, A. F	Telegraphs, printing	Mar. 25, 1884
287,291	Johnson, A. M		Oct. 23, 1883
288,443	Johnson, L.	Conductors	Nov. 13, 1883
281,884	Johnson, W. S	Thermostats	July 24, 1883
283,736	Johnson, W. S.		Aug. 21, 1883
286,445	Johnson, W. S		Oct. 9, 1883
	JOHUSOB. W. S	Valve-controllers	Apr. 29, 1884
297,937 $299,552$	Johnson, W. S.	Indicators	June 3, 1884

No.	Name.	CLASS.	DATE.
299,397	Jones, E. and A. E.	Lights, arc	May 27, 1884
300,781 $293,886$	Jones, F. W Jones, J. B	Telegraphs, duplex	June 24, 1884 Feb. 19, 1884
292,317	Joseph, T. B	Applications, general	Jan. 22, 1884
295,873	Jungerman, E	Clocks	Mar. 25, 1884
290,689	Kampfe, R	Car-brakes	Dec. 25, 1883
280,933	Karshner, W. W.	Batteries, galvanic	July 10, 1883
299,649 281,698	Keep, W. F. and W. H.	Applications, general Lights, arc	June 3, 1884 July 24, 1883
292,119	Kessler, J. K		Jan. 15, 1884
292,753	Kessler, J. K	do	Jan. 29, 1884
294,051	Kessler, J. K		Feb. 26, 1884
290,894 288,818	Kettell, J. FKimball, A. S	Magneto-electric	Dec. 25, 1883
295,652	Kinder, A. H		Nov. 20, 1883 Mar. 25, 1884
293,179	King, C. W. and Cliff, A.	Applications, tools and machines.	Feb. 5, 1884
283,492	Kinsman, F. E	Cut-outs, thermal	Aug. 21, 1883
288,449	Kinsman, J. H		Nov. 13, 1883
295,559 $297,699$	Kitson, G. L	Connectors	Mar. 25, 1884 Apr. 29, 1884
297,269	Klein, P. H., jr		Apr. 22, 1884
291,360	Knight, J. K	Railway-signals	Jan. 1, 1884
282,459	Knowles, E. R.	Magneto-electric	July 31, 1883
282,460 282,461	Knowles, E. R.		
282,461	Knowles, E. R		
291,850	Knowles, E. R.		
282,534	Knowles, E. R. and Idell, F. E	Lights, incandescent	
292,121	Knowles, E. R. and Idell, F. E	Magneto-electric	
292,324 300,713	Knowles, E. R. and Idell, F. E Knudson, A. A.	Lights, incandescent————————————————————————————————————	
286,829	Kohmescher, J. H	Conductors	Oct. 16, 1883
288,454	Kruesi, J	do	
296,185	Kruesi, J	Underground lines	Apr. 1, 1884
289,918	Kühmáier, FKuhnmünch, J	Motors	Dec. 11, 1883 Nov. 6, 1883
288,068 298,479	Kurtz, A. B	Separators Telephonic telegraphs, mechanical	
296,849	Lachlan, W		Apr. 15, 1884
284,862	Lackersteen, M. II	Applications, general	Sept. 11, 1883
300,269	Lamar, J. S		
288,348 287,300	Lane, FLane, T. W		Nov. 13, 1883 Oct. 23, 1883
287,301	Lane, T. W	do	Oct. 23, 1883
293,256	Languereau, J.	Lights, incandescent	Feb. 12, 1884
300,615	Lannert, J. A.	Magneto-electric	June 17, 1884
297,273 289,665	Lazelle, J. L	Alama bundan	Apr. 22, 1884
281,891		Alarms, burglar Lights, arc	Dec. 4, 1883 July 24, 1883
285,494	Le Grande, W. W.	Conductors	Sept. 25, 1883
287,446	Le Grande, W. W.	Railway-signals	Oct. 30, 1883
291,063	Leitch, A. E.	Annunciators	Jan. 1, 1884
284,643 286,208	Letrange I.	Underground lines	Sept. 11, 1883 Oct. 9, 1883
291,209		Regulators	
300,489	Lever, C	Lights, are	June 17, 1884
289,425	Levison, W. G.	Lights, systems and appliances	Dec. 4, 1883
286,833		Regulatorsdo	
286,834 297,819	Lewis, C. W.	Keys	Apr. 29, 1884
298,593		Insulators	
298,594	Lewis, J. S.	do	May 13, 1884
283,624	Lister, J. T	Magneto-electric	Aug. 21, 1883
300,490 281,895	Lockwood, T. D	Recorders Telephonic telegraphs, electric	July 24 1883
283,626	Lockwood, T. D	Telephonic telegraphs, calls	Aug. 21, 1883
290,898	Lockwood, T. D	Telephonic telegraphs, relays and repeaters	Dec. 25, 1883
291,915	Lockwood, T. D.	Telephonic telegraphs, systems	Jan. 15, 1884
296,588	Lockwood, T. D. and Lane, T. W.	Telephonic telegraphs, calls	Apr. 8, 1884 Jan. 22, 1884
292,335 283,123	Lockwood, T. D. and Lane, T. W Lockwood, W. C	Telephonic telegraphs, magnetic Telephonic telegraphs, electric	Aug. 14, 1883
297,820	Loder, J. H	Lights, arc	Apr. 29, 1884
289,008	Long, M. W	Railway-signals	Nov. 27, 1883
280,838	Loomis, B	Applications, general	July 10, 1883
281,381 289,353	Loring C. T.	Telephonic telegraphs, systemsdo	July 17, 1883 Nov. 27, 1883
	T T T T T T T T T T T T T T T T T T T	Nr	1 01 1000
283,498	Loryea, A. M. and Palmer, C. H.	Cut-outs, mechanical	Aug. 21, 1885

No.	Name.	Class.	DATE.
292,930	Lubke, A. E. G	Motors	Feb. 5, 1884
293,758	Lubke, A. E. G	Magneto-electric	Feb. 19, 1884
296,857	Lubke, A. E. G	do	Apr. 15, 1884
290,441 294,892	Lüngen, A Lungren, C. M	Gas-lighting Magneto-electric	Dec. 18, 1883 Mar. 11, 1884
300,095	Lynn, M. N	Lights, are	June 10, 1884
283,716	Lyon, H	Transmitters	Aug. 21, 1883
294,482	Lytle, F. M. and McCoy, J. A	Telephonic telegraphs, systems	Mar. 4, 1884
284,216	Lytle, H. B	Clocks	Sept. 4, 1883
299,561 299,562	Lytle, H. B. and Carty, J. J. Lytle, H. B. and Carty, J. J.	Clocksdo	June 3, 1884 June 3, 1884
289,545	Mac Eachran, D	Separators	Dec. 4, 1883
299,992	Magner, W.	Underground lines	June 10, 1884
292,022	Maine, H	Telephonic telegraphs, details	Jan. 15, 1884
287,449 289,285	Maloney, J. A	Telephouic telegraphs, relays and repeaters – Relays and sounders————————————————————————————————————	Oct. 30, 1883
296,420	Maloney, J. A	Telephonic telegraphs, magnetic	Nov. 27, 1883 Apr. 8, 1884
296,421	Maloney, J. A	Telephonic telegraphs, electric	Apr. 8, 1884
296,593	Maloney, J. A	do	Apr. 8, 1884
293,338	Many, C. M	Applications, general	Feb. 12, 1884
286,030 293,482	Markle, J. R. and Wayne, J. B	Applications, tools and machines Magneto-electric	Oct. 2, 1883 Feb. 12, 1884
282,914	Martin, J. F.	Conductors	Aug. 7, 1883
286,937	Martin, J. F.	do	Oct. 16, 1883
286,938	Martin, J. F	Underground lines	Oct. 16, 1883
286,939	Martin, J. F.	do	Oct. 16, 1883
286,940 286,941	Martin, J. F	do	Oct. 16, 1883 Oct. 16, 1883
286,942	Martin, J. F	do	Oct. 16, 1883
286,943	Martin, J. F.	do	Oct. 16, 1883
286,944	Martin, J. F	do	Oct. 16, 1883
286,945 286,946	Martin, J. F	Conductors	
286,947	Martin, J. F	Conductors	
286,948	Martin, J. F.	Conductors, anti-inductive	Oct. 16, 1883
286,949	Martin, J. F	do	Oct. 16, 1883
286,950	Martin, J. F	Underground lines	
287,146 286,722	Martin, J. F.	Conductors	
286,325	Mather, R. H	Regulators	Oct. 9, 1883
288,089	Mather, T. W	Telephonic telegraphs, calls	Nov. 6, 1883
283,629	Maxim, H. S	Lights, are	Aug. 21, 1883
296,341 290,338	Maxim, H. S	Applications, tools and machines	Apr. 8, 1884
286,035	Mayall, T. J	Railway-signals	Dec. 18, 1883 Oct. 2, 1883
286,036	Mayall, T. J	do	Oct. 2, 1883
291,371	Mayall, T. J	Underground lines	Jan. 1, 1884
283,912	McCarty, R. A. and Johnson, C. M.	Locomotion	Aug. 28, 1883
293,974 300,098	McCarty, W. F. M McCarty, W. F. M	Telegraphs, automatic Circuit-closers	Feb. 19, 1884 June 10, 1884
299,664	McCausland, W. J.	Telegraphs, printing	June 3, 1884
288,826	McConnell, J. T.	Lights, are	Nov. 20, 1883
284,878	McCormick, D. A.	Annunciators	Sept. 11, 1883
287,040 295,267	McCoy, J. A.	Lights, systems and appliances	Oct. 23, 1883 Mar. 18, 1884
295,267	McDaniel, C. W McElhiney, H. H	Lightning-arresters Dental-instruments	Feb. 26, 1884
284,137	McElroy, W. J	Conductors	Ang. 28, 1883
284,138	McElroy, W. J	do	Aug. 28, 1883
284,139	McElroy, W. J	Underground lines	Aug. 28, 1883
297,148 287,766	McFall, E. H	Telephonic telegraphs, calls	Apr. 22, 1884 Oct. 30, 1883
281,097	McGinnis, W. T	Induction-coils	July 10, 1883
295,574	McGinnis, W. T	Batteries, galvanic	Mar. 25, 1884
293,901	McGrory, T	Insulators	Feb. 19, 1884
291,211	McIntire, C	Connectors	Jan. 1, 1884
281,904 295,789	McMahan, J. M McTighe, J. J	Magneto-electric	July 24, 1883 Mar. 25, 1884
288,829	McTighe, T. J.	do	Nov. 20, 1883
2 88,830	McTighe, T. J. and McConnell, J. T	do	Nov. 20, 1883
288,831	McTighe, T. J. and McConnell, J. T	Lights, are	Nov. 20, 1883
292,835 298,997	Mehren, J. F.	Telephonic telegraphs, electric	Feb. 5, 1884 May 20, 1884
288,835	Millard, O	Batteries, galvanic Telephonic telegraphs, mechanical	Nov. 20, 1883
296,294	Miner, T	Conductors	Apr. 1, 1884
286,144	Moffatt, R. R.	Lights, are	Oct. 2, 1883
281,285	Moffitt, J. A	Laconotion	July 17, 1883
288,356	Molera, E. J.	Locomotion	1,07, 19, 1999

292,634 Molera, F. J. and Cebrian, J. C.				
292,634 Molera, F. J. and Cebran, J. C. Separtors Dec. 18, 188 291,275 Moore, C. E	No.	Name.	CLASS.	DATE.
292,634 Moley, R. C. Separtors Den. 18, 188 291,252 Moore, C. E. Control July 21, 188 291,252 Moore, C. E. Control July 21, 188 291,252 Moray, W. Lights are Mary 23, 188 291,255 Morton, F. W. Applications, tools and machines Jan. 15, 188 292,840 Moses, O. A. Lights, are Oct. 16, 188 292,840 Moses, O. A. Lights, are Oct. 16, 188 292,840 Moses, O. A. Lights, are Oct. 16, 188 293,840 Moses, O. A. Lights, are Oct. 16, 188 293,640 Moses, O. A. Lights, are Lights, meandescent. Peb. 1, 188 293,640 Moses, O. A. Lights, meandescent. Peb. 1, 188 293,640 Moses, O. A. Lights, meandescent. Peb. 1, 188 293,743 Muirhead, A. Lights, meandescent. Peb. 1, 188 281,117 Muirhead, A. do July 10, 188 281,118 Muirhead, A. do July 10, 188 293,743 Nevens, C. G. E. Lights, systems and appliances Det. 3, 188 294,240 Newn, C. G. E. Lights, systems and appliances Apr. 2, 188 294,540 Newny, H. F. do Apr. 20, 188 295,763 Muryl, M. F. do Apr. 20, 188 295,763 Muryl, M. F. do Apr. 20, 188 296,540 Newny, H. F. do Apr. 20, 188 297,762 Newny, H. F. do Apr. 20, 188 298,102 Nickum, G. S. Applications, tools and machines Des. 3, 188 298,102 Nickum, G. S. Applications, tools and machine Nov. 6, 188 298,203 Nickum, G. S. Applications, tools and machine Nov. 6, 188 298,777 Nungesser, P. P. do Oct. 30, 188 298,777 Nungesser, P. P. do Oct. 30, 188 298,778 Nungesser, P. P. do Oct. 30, 188 298,300 Oct. 10, N. Telephonic telegraphs, systems July 14, 188 298,300 Oct. 10, N. Telephonic telegraphs, calls July 14, 188 298,300 Oct. 10, N. Telephonic telegraphs, calls July 14, 188 298,301 Nickins, M. J. Telephonic telegraphs, calls July 14, 188 298,302 Oct. 10, N. Telephoni	291,526	Molera, E. J. and Cebrian, J. C	Batteries, secondary	Jan. 8, 1884
281,782 Moore, C. E		Molera, E. J. and Cebrian, J. C.	do	Jan. 15, 1884
284,970 Moore, F		Molloy, B. C.	Separators	
295,661 Morava, W				
286,953 Moss, O. A.			Lights, are	Mar. 25, 1884
292,840 Moses, O. A				Jan. 15, 1884
293,495 Moses, O. A				
283,270 Mott, S. D.				
281,117 Muirhead, A and Winter, G. K do	283,270	Mott, S. D	Lights, incandescent	Aug. 14, 1883
281,118 Miribead, A. and Winter, G. K.				July 3, 1883
287,505 Mardock, G. J. Regulators Oct. 30, 182 294,290 Neifing; J. Reys Feb. 61, 184 294,290 Neifing; J. Reys Feb. 62, 184 294,290 Neifing; J. Reys Feb. 62, 184 295,630 Newbury, H. F. Magneti-locks Apr. 15, 184 295,630 Neithols, W. Telephonic telegraphs, calls. Aug. 14, 188 295,630 Neithols, W. Telephonic telegraphs, quadruplex Newton, P. P. Magneser, P.				
289,693		Murdock, G. J	Regulators	
297,433	289.693			Dec. 4, 1883
299,866 Newbury, H. F	294,259			Feb. 26, 1884
297,623 Newbury, H. F.				
300,999 Newton, F. M.				
Seps 10 Nickoun, G. S	300,999			June 24, 1884
288,102 Nickum, G. S. Applications, tools and machines Nov. 6, 188 (287,773 Nungesser, P. P. Magneto-electric Oct. 30, 188 (287,833 Nungesser, P. P. do Oct. 30, 188 (287,834 Nungesser, P. P. Lights, are Apr. 29, 188 (287,834 Nungesser, P. P. Lights, are Apr. 29, 188 (288,860 O'Donel, I. M. Telephonic telegraphs, systems Aug. 28, 188 (283,860 O'Donel, I. M. Telephonic telegraphs, systems Aug. 28, 188 (280,947 Ohl, P. C. Conductors July 10, 188 (280,947 Ohl, P. C. Telephonic telegraphs, calls July 10, 188 (280,947 Ohl, P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,947 Ohl, P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,947 Ohl, P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,948 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,949 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,949 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,949 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,949 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,949 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280,949 Ohl), P. C. Telephonic telegraphs, systems Nov. 6, 188 (280				Aug. 14, 1883
287,773 Nungesser, P. P. Magneto-electric Oct. 30, 188: 287,774 Nungesser, P. P. Lights, arc Apr. 29, 188- 289,360 Okaman, S. Lusulators Nov. 13, 188: 283,360 Obnel, I. M. Telephonic telegraphs, systems Aug. 28, 188: 283,966 Obnel, I. M. Telephonic telegraphs, systems Aug. 28, 188: 280,947 Ohl, P. C. Conductors Aug. 28, 188: 280,947 Ohl, P. C. Conductors Aug. 28, 188: 280,947 Ohl, P. C. Telephonic telegraphs, calls July 10, 188: 280,948 Ohl, P. C. Telephonic telegraphs, calls July 10, 188: 290,008 Ohly, C. H. Telephonic telegraphs, systems Nov. 6, 188: 290,008 Ohusted, J. Aug. 21, 188: 292,761 Ohusted, J. Aug. 28, 188: 283,807 Oppenheimer, L. K. Applications, tools and machines June 3, 188: 292,761 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, systems Aug. 28, 188: 282,576 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, systems Aug. 28, 188: 282,576 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls July 10, 188: 282,576 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls July 10, 188: 283,575 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls July 10, 188: 283,575 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls July 10, 188: 283,575 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls July 10, 188: 283,575 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls July 10, 188: 283,575 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls July 10, 188: 283,575 Oram, J. M., Sutton, M. J. Telegraphs, printing July 24, 188: 283,575 Oram, J. M., Sutton, M. J. Telegraphs, printing July 24, 188: 283,576 Oram, J. M., Sutton, M. J. Telegraphs, printing July 24, 188: 283,576 Oram, J. M., S	289,301			
287,774 Nungesser, P. P.	287,773	Nungesser, P. P.		Oct. 30, 1883
294,066	287,774	Nungesser, P. P.	do	
288,360 Oakman, S.				
283,380 O'Donel, I. M. Telephonic telegraphs, systems Aug. 28, 188 280,947 Ohl, P. C Conductors July 10, 188 280,947 Ohl, P. C Telephonic telegraphs, calls July 10, 188 280,948 Ohl, P. C Telephonic telegraphs, calls July 10, 188 285,183 Ohly, C. H. Telephonic telegraphs, systems Nov. 6, 188 299,572 Oliver, H. W., jr. Applications, tools and machines June 3, 188 280,088 Olmsted, J Magneto-electric Density of Magneto-ele				
283,135 O'Harra, G. W			Telephonic telegraphs, systems	Aug. 28, 1883
280,948 Ohl, P. C	283,138	O'Harra, G. W	Rheostats	Aug. 14, 1883
288,183 Ohly, C. H.				
299,572 Oliver, H. W., jr Applications, tools and machines June 3, 188-292,761 Olmsted, J Magneto-electrie Dec. 11, 188-292,761 Olmsted, J Lights, systems and appliances Jan. 29, 188-283,870 Omensetter, E Underground lines May 13, 188-283,877 Oppenheimer, L. K Applications, general May 13, 188-287,710 Oram, J. M., Sutton, H. M. and Garrett, H. Elephonic telegraphs, systems Oct. 30, 188-284,655 Orkeilly, A. J Stateries, galvanic Aug. 14, 188-280,855 Orte, C. P Batteries, galvanic Aug. 14, 188-280,850 Orton, B. F Lights, systems and appliances July 10, 188-280,850 Orton, B. F Lights, systems and appliances July 10, 188-280,850 Orton, B. F Lights, systems and appliances July 10, 188-280,850 Orton, B. F Lights, systems and appliances July 10, 188-280,850 Ostone, J. W Applications, general Nov. 6, 188-280,955 Osborne, J. W Applications, general Nov. 6, 188-280,955 Osborne, J. W Applications, general Nov. 6, 188-280,955 Osborne, J. W Applications, general Nov. 6, 188-299,477 Osbulivan, M. J Relays and sounders Oct. 16, 188-299,477 Osbulivan, M. J Relays and sounders Oct. 16, 188-299,477 Palst, C Batteries, galvanic May 27, 188-295,581 Pace, R. G. and Wey, W. J Alarms Mar. 25, 188-295,671 Page, J. H Conductors Dec. 11, 188-299,672 Page, J. H Conductors Dec. 18, 188-299,672 Park, H. S Car-brakes Apr. 29, 188-299,672 Park, H. S Car-brakes Apr. 29, 188-299,672 Park, H. S Car-brakes Apr. 29, 188-299,673 Parker, T. H Cas-lighting Oct. 9, 188-299,674 Park, H. S Car-brakes Apr. 29, 188-299,7438 Parker, T. H Cas-lighting Oct. 9, 188-299,7438 Parker, T. H Cas-lighting				
290,098 Olmsted, J		Oliver, H. W., jr		June 3, 1884
283,807 Omenserter, E		Olmsted, J	Magneto-electric	Dec. 11, 1883
298,397 Oppenheimer, L. K		Olmsted, J		
287,710 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, systems Oct. 30, 188; 292,570 Oram, J. M., Sutton, H. M. and Garrett, H. Telephonic telegraphs, calls Jan. 29, 188; 283,535 Ornc, C. P. Batteries, galvanic Aug. 14, 188; 285,657 Orvis, O. D. and Adams, N. B. Underground lines Sept. 19, 188; 281,788 Ostrogovich, F. Telegraphs, printing July 24, 188; 281,788 Ostrogovich, F. Telegraphs, printing July 24, 188; 281,788 Ostrogovich, F. Telegraphs, printing July 24, 188; 299,417 O'Sullivan, M. J. Telegraphs, fire May 27, 1884; 295,671 Pabst, C. Batteries, galvanic Mar. 25, 1884; 295,671 Pabst, C. Batteries, galvanic Mar. 25, 1884; 295,681 Pace, R. G. and Wev, W. J. Alarms Mar. 25, 1884; 297,626 Page, J. H. Conductors Dec. 11, 188; 297,626 Page, J. H. Underground lines May 6, 1884; 299,800 Page, J. H. Underground lines May 6, 1884; 299,800 Page, J. H. Underground lines May 6, 1884; 299,800 Page, J. H. Underground lines May 6, 1884; 299,800 Page, J. H. Underground lines May 6, 1884; 299,350 Paimer, A. C. Annunciators Dec. 18, 1883; 282,561 Parker, H. S. do Apr. 1, 1884; 296,341 Park, H. S. do Apr. 1, 1884; 296,342 Parker, T. H. Gas-lighting Oct. 9, 1833; 287,355 Parker, L. C. Applications, tools and machines Nov. 6, 1883; 287,348 Parrish, M. F. and Munn, S. J. Railway-signals Apr. 22, 1884; 297,390 Patee, T. H. do Apr. 2, 1884; 297,391 Patee, T. H. do Apr. 2, 1884; 297,392 Patee, T. H. do Apr. 2, 1884; 297,393 Patterson, W. R. Lightning-arresters July 24, 1883; 297,392 Patterson, W. R. Lightning-arresters July 24, 1883; 298,3775 Pat		Oppenheimer, L. K	Applications, general	May 13, 1884
Sept. 11, 1885 Sept. 11, 1885 Sept. 11, 1885 Sept. 11, 1885 Sept. 12, 1885 Sept. 13, 1885 Sept. 13, 1885 Orror, C. P.	287,710	Oram, J. M.	Telephonic telegraphs, systems	
S85,555 Ornc, C. P.				Jan. 29, 1884
280,550 Orton, B. F.	284,000			
Sept. 25, 1886 Sept. 26, 1886 Sept				
281,788			Underground lines	Sept. 25, 1883
Section Care		Osborne, J. W	Applications, general	Nov. 6, 1883
299,417 O'Sullivan, M. J	286.955		Relays and sounders	Oct. 16, 1883
295,671 Pabst, C Batteries, galvanie Mar. 25, 1884 295,581 Pace, R. G. and Wev, W. J Alarms Mar. 25, 1884 290,101 Page, H. W. and Carley, H Indicators Dec. 11, 1883 297,626 Page, J. H Conductors Apr. 29, 1884 298,020 Page, J. H Underground lines May 6, 1884 290,350 Palmer, A. C Annunciators Dec. 18, 1883 289,552 Palmer, A. C Annunciators Dec. 4, 1883 282,561 Palmer, F. A Therapeutics, electrodes Apr. 1, 1884 296,211 Park, H. S Car-brakes Apr. 1, 1884 296,312 Park, H. S do Apr. 1, 1884 287,855 Parker, L. C Applications, tools and machines Nov. 6, 1883 286,841 Parker, T. H Gas-ligbting Oct. 9, 1883 287,438 Partish, M. F. and Munn, S. J Railway-signals Apr. 22, 1884 297,290 Patee, T. H do Apr. 22, 1884 297,291 Patee, T. H do Apr. 22, 1884	299,417		Telegraphs, fire	May 27, 1884
290,101 Page, H. W. and Carley, H Indicators Dec. 11, 1883	295,671	Pabst, C	Batteries, galvanie	
297,626 Page, J. H	295,581	Page If W and Carley II	Indicators	Dec 11 1883
298,020 Page, J. H Underground lines May 6, 1884 290,350 Paine, H. M Magneto-electric Dec. 18, 1883 289,552 Palmer, A. C Annunciators Dec. 4, 1883 282,561 Palmer, F. A Therapeutics, electrodes Aug. 7, 1883 296,211 Park, H. S do Apr. 1, 1884 296,349 Park, H. S do Apr. 1, 1884 296,349 Park, H. S do Apr. 8, 1883 286,481 Parker, L. C Applications, tools and machines Nov. 6, 1883 286,841 Parker, T. H Gas-ligbting Oct. 9, 1883 287,438 Parkin, F. and Munn, S. J Railway-signals Apr. 22, 1884 282,562 Patee, T. H Lightning-rods Aug. 7, 1883 297,291 Patee, T. H do Apr. 22, 1884 281,722 Patterson, W. R Underground lines July 24, 1883 281,723 Patterson, W. R Conductors Sept. 4, 1883 292,847 Patterson, W. R do Feb. 5, 1884 <td< td=""><td></td><td>Page, J. H</td><td>Conductors</td><td>Apr. 29, 1884</td></td<>		Page, J. H	Conductors	Apr. 29, 1884
289,552 Palmer, A. C Annunciators Dec. 4, 1883 282,561 Palmer, F. A Therapeutics, electrodes Aug. 7, 1883 296,212 Park, H. S Car-brakes Apr. 1, 1884 296,349 Park, H. S do Apr. 8, 1884 287,855 Parker, L. C Applications, tools and machines Nov. 6, 1883 286,481 Parker, T. H Gas-lighting Oct. 9, 1883 297,438 Parrish, M. F. and Munn, S. J Railway-signals Apr. 22, 1884 282,562 Patee, T. H do Apr. 22, 1884 297,290 Patee, T. H do Apr. 22, 1884 281,722 Patterson, W. R Underground lines July 24, 1883 281,723 Patterson, W. R Lightning-arresters July 24, 1883 281,723 Patterson, W. R Conductors Sept. 4, 1883 292,847 Patterson, W. R do Feb. 5, 1884 292,848 Patterson, W. R do Feb. 5, 1884 292,849 Patterson, W. R do Feb. 5, 1884	298,020	Page, J. H	Underground lines	May 6, 1884
282,561 Palmer, F. A Therapeutics, electrodes Aug. 7, 1883 296,211 Park, H. S do Apr. 1, 1884 296,349 Park, H. S do Apr. 1, 1884 287,855 Parker, L. C Applications, tools and machines Nov. 6, 1883 286,481 Parker, T. H Gas-lighting Oct. 9, 1883 297,438 Parkhurst, E. B Regulators Oct. 16, 1883 297,290 Pare, T. H Lightning-rods Aug. 7, 1883 297,290 Patee, T. H Lightning-rods Aug. 7, 1883 297,291 Patee, T. H do Apr. 22, 1884 297,291 Patee, T. H do Apr. 22, 1884 281,723 Patterson, W. R Underground lines July 24, 1883 281,723 Patterson, W. R Lightning-arresters July 24, 1883 292,847 Patterson, W. R Conductors Sept. 4, 1883 292,848 Patterson, W. R do Feb. 5, 1884 292,849 Patterson, W. R do Feb. 5, 1884 294,500		Palmer, A. C.	Magneto-electric	Dec. 18, 1883
296,211	289,552	Palmer F A	Therapeutics electrodes	Ang. 7, 1883
296,349 Park, H. S. do Apr. 8, 1884 287,855 Parker, L. C. Applications, tools and machines Nov. 6, 1883 286,481 Parker, T. H. Gas-lighting Oct. 9, 1883 297,438 Parrish, M. F. and Munn, S. J. Railway-signals Apr. 22, 1884 282,562 Patee, T. H. Lightning-rods Aug. 7, 1883 297,290 Patee, T. H. do Apr. 22, 1884 281,729 Patee, T. H. do Apr. 22, 1884 281,722 Patterson, W. R. Underground lines July 24, 1883 281,723 Patterson, W. R. Lightning-arresters July 24, 1883 282,847 Patterson, W. R. Conductors Sept. 4, 1883 292,848 Patterson, W. R. do Feb. 5, 1884 292,849 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 2	296,211	Park, H. S	Car-brakes	Apr. 1, 1884
287,855 Parker, L. C. Applications, tools and machines. Nov. 6, 1883 286,481 Parker, T. H. Gas-ligbting. Oct. 9, 1883 286,841 Parkhurst, E. B. Regulators Oct. 16, 1883 297,438 Parrish, M. F. and Munn, S. J. Railway-signals. Apr. 22, 1884 282,562 Patee, T. H. do Apr. 22, 1884 297,290 Patee, T. H. do Apr. 22, 1884 297,291 Patee, T. H. do Apr. 22, 1884 281,722 Patterson, W. R. Underground lines July 24, 1883 281,723 Patterson, W. R. Lightning-arresters July 24, 1883 292,847 Patterson, W. R. Conductors Sept. 4, 1883 292,848 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884	296,212	Park, H. S	do	Apr. 1, 1884
286,481 Parker, T. H Gas-lighting Oct. 9, 1883 286,841 Parkhurst, E. B. Regulators Oct. 16, 1883 297,438 Parrish, M. F. and Munn, S. J. Railway-signals Apr. 22, 1884 282,562 Patee, T. H. do Apr. 22, 1884 297,291 Patee, T. H. do Apr. 22, 1884 281,722 Patterson, W. R. Underground lines July 24, 1883 281,723 Patterson, W. R. Lightning-arresters July 24, 1883 292,847 Patterson, W. R. Conductors Sept. 4, 1883 292,848 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. do Feb. 5, 1884 296,774 <t< td=""><td></td><td></td><td></td><td></td></t<>				
286,841 Parkhurst, E. B. Regulators Oct. 16, 1883 297,438 Parrish, M. F. and Munn, S. J. Railway-signals Apr. 22, 1884 282,562 Patee, T. H. Lightning-rods Apr. 22, 1884 297,291 Patee, T. H. do Apr. 22, 1884 281,722 Patterson, W. R. Underground lines July 24, 1883 281,723 Patterson, W. R. Lightning-arresters July 24, 1883 284,226 Patterson, W. R. Conductors Sept. 4, 1883 292,847 Patterson, W. R. do Feb. 5, 1884 292,848 Patterson, W. R. do Feb. 5, 1884 292,849 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. Underground lines Mar. 4, 1884 294,570 Patterson, W. R. do Feb. 5, 1884 294,570 Patterson, W. R. do Feb. 19, 1884 294,570 Patterson, W. R. Underground lines Mar. 4, 1884 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
297,438 Parrish, M. F. and Munn, S. J Railway-signals Apr. 22, 1884 282,562 Patee, T. H do Apr. 22, 1884 297,291 Patee, T. H do Apr. 22, 1884 281,722 Patterson, W. R Underground lines July 24, 1883 281,723 Patterson, W. R Lightning-arresters July 24, 1883 284,226 Patterson, W. R Conductors Sept. 4, 1883 292,847 Patterson, W. R do Feb. 5, 1884 292,848 Patterson, W. R do Feb. 5, 1884 292,849 Patterson, W. R do Feb. 5, 1884 293,775 Patterson, W. R do Feb. 5, 1884 294,500 Patterson, W. R do Feb. 19, 1884 294,500 Patterson, W. R Underground lines Mar. 4, 1884 296,774 Patterson, W. R Underground lines Apr. 15, 1884	286,841	Parkhurst, E. B.	Regulators	Oct. 16, 1883
297,291 Patee, T. H. do Apr. 22, 1884 281,722 Patterson, W. R. Underground lines July 24, 1883 281,723 Patterson, W. R. Lightning-arresters July 24, 1883 284,226 Patterson, W. R. Conductors Sept. 4, 1883 292,847 Patterson, W. R. do Feb. 5, 1884 292,848 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. Underground lines Mar. 4, 1884 296,774 Patterson, W. R. Underground lines Mar. 4, 1884 4 pr. 15, 1884	297,438	Parrish, M. F. and Munn, S. J.	Railway-signals	Apr. 22, 1884
297,291 Patee, T. H. do Apr. 22, 1884 281,722 Patterson, W. R. Underground lines July 24, 1883 281,723 Patterson, W. R. Lightning-arresters July 24, 1883 284,226 Patterson, W. R. Conductors Sept. 4, 1883 292,847 Patterson, W. R. do Feb. 5, 1884 292,848 Patterson, W. R. do Feb. 5, 1884 293,775 Patterson, W. R. do Feb. 5, 1884 294,500 Patterson, W. R. Underground lines Mar. 4, 1884 296,774 Patterson, W. R. Underground lines Mar. 4, 1884 4 pr. 15, 1884	297,290	Patee, T. H	Lightling-rods	Apr. 22, 1884
281,722 Patterson, W. R Underground lines July 24, 1883 281,723 Patterson, W. R Lightning-arresters July 24, 1883 284,226 Patterson, W. R Conductors Sept. 4, 1883 292,847 Patterson, W. R do Feb. 5, 1884 292,848 Patterson, W. R do Feb. 5, 1884 293,775 Patterson, W. R do Feb. 5, 1884 294,500 Patterson, W. R do Feb. 19, 1884 294,500 Patterson, W. R Underground lines Mar. 4, 1884 296,774 Patterson, W. R do Apr. 15, 1884	297 291	Patee, T. H	do	Apr. 22, 1884
284,226 Patterson, W. R Conductors Sept. 4, 1883 292,847 Patterson, W. R do Feb. 5, 1884 292,849 Patterson, W. R do Feb. 5, 1884 293,775 Patterson, W. R do Feb. 5, 1884 294,500 Patterson, W. R do Feb. 19, 1884 294,774 Patterson, W. R Underground lines Mar. 4, 1884 296,774 Patterson, W. R do Apr. 15, 1884	281,722	Patterson, W. R	Underground lines	July 24, 1883
292,847 Patterson, W. R do Feb. 5, 1884 292,848 Patterson, W. R do Feb. 5, 1884 292,849 Patterson, W. R do Feb. 5, 1884 293,775 Patterson, W. R do Feb. 5, 1884 294,500 Patterson, W. R John Company Mar. 4, 1884 296,774 Patterson, W. R Underground lines Mar. 4, 1884 296,774 Patterson, W. R do Apr. 15, 1884	281,723	Patterson, W. R	Lightning-arresters	July 24, 1883
292,848 Patterson, W. R	292.847	Patterson, W. R	do	Feb. 5, 1884
292,849 Patterson, W. R do Feb. 5, 1884 293,775 Patterson, W. R do Feb. 19, 1884 294,500 Patterson, W. R Underground lines Mar. 4, 1884 296,774 Patterson, W. R do Apr. 15, 1884	292,848	Patterson, W. R	do	Feb. 5, 1884
294,500 Patterson, W. R Underground lines Mar. 4, 1884	292,849	Patterson, W. R	do	Feb. 5, 1884
296,774 Patterson, W. R do Apr. 15, 1884		Patterson W R	Underground lines	Mar. 4 1884
000 000 70 707 70		Patterson, W. R	do	Apr. 15, 1884
300,005 Patterson, W. R		Patterson, W. R	do	June 10, 1884

No.	Name.	Class.	DATE.
290,602	Pattyson W D C	Telegraphs, railway-car	Dec. 18, 1883
288,107	Pearce, F	Telegraphs, fire	Nov. 6, 1883
280,506	Pearce, F. and Jones, J.	do	July 3, 1883
285,066	Peckham, F. H., jr	Batteries, galvanie	Sept. 18, 1883
287,775	Peirce, W. E	Magnetic-locks	Oct. 30, 1883
287,313 287,314		Lights, incandescentdodo	
287,315	Perkins, C. G	Lights, systems and appliances	Oct. 23, 1883
287,316	Perkins, C. G.	do	Oct. 23, 1883
287,317		do	
287,318 287,319	Perkins, C. G.	Lights, incandescent	Oct. 23, 1883
287,320	Perkins, C. G		
287,321		Lights, systems and appliances	
287,322		do	
287,323		Lights, incandescent	
290,467 290,468	Perkins, C. G.	Batteries, secondary, applications	Dec. 18, 1883 Dec. 18, 1883
290,469	Perkins, C. G.		Dec. 18, 1883
290,470	Perkins, C. G.	Batteries, secondary, applications	Dec. 18, 1883
280,662	Perrin, T. J.	Telephonic telegraphs, systems	July 3, 1883
280,663 294,906	Perrin, T. J	do	July 3, 1883
285,670	Perrin, T. J	Underground lines	Mar. 11, 1884 Sept. 25, 1883
281,202	Phelps, L. J.	Circuit-closers	July 10, 1883
288,480	Phelps, W. P.	Railway-signals	Nov. 13, 1883
292,762	Philippart, G	Batteries, secondary	
293,271 $285,672$	Phillips, W. J. and Kitson, G. L	Conductorsdo	Feb. 12, 1884 Sept. 25, 1883
285.673	Phillips, H. O	do	Sept. 25, 1883
286,220 287,776	Phillips, H. O	do	Oct. 9, 1883
287,776	Phillips, H. O	do	Oct. 30, 1883
284,755		Recorders	Sept. 11, 1883
293,076 299,259	Pike, E	Lights, areSeparators	Feb. 5, 1884 May 27, 1884
294,404	Pinkham, C. S.		Mar. 4, 1884
293,979	Plumb, C	Keys	Feb. 19, 1884
282,921	Plush, S. M		Aug. 7, 1883
284,480	Pope, F. L		Sept. 4, 1883
284,481 290,922	Pope, F. L	Telegraphs Insulators	Sept. 4, 1883 Dec. 25, 1883
293,272	Pope, F. L	Batteries, galvanic	Feb. 12, 1884
294,148	Pope, F. L	Conductors	Feb. 26, 1884
294,669	Pope, F. L	Electro-magnets	Mar. 4, 1884
295,427 283,140	Pope, F. L		Mar. 18, 1884 Aug. 14, 1883
283,276	Pope, H. W	Connectors	Aug. 14, 1883
296,058	Porter, M. D	Thermostats	Apr. 1, 1884
296,874	Porter, M. D	Telegraphs, fire	Apr. 15, 1884
296,875 $287,466$	Porter, M. D. and Wilder, E. R.——————————————————————————————————		Apr. 15, 1884 Oct. 30, 1883
285,676	Prentiss, F. H. and Tilden, J. A	Railway-signals	Sept. 25, 1883
293,518	Prince, J.	Applications, general	Feb. 12, 1884
282,010	Putnam, T. A. B	Underground lines	July 24, 1883
284,668	Putnam, T. A. B.	Conductors	
284,669 284,670	Putnam, T. A. B. Putnam, T. A. B.		Sept. 11, 1883 Sept. 11, 1883
289,137	Putnam, T. A. B		Nov. 27, 1883
280,763	Rabl, F	Lights, are	July 3, 1883
294,270	Rae, F. B. and Healy, C. L.		
280,764 $295,804$	Rafer, E. E. and E. G ——————————————————————————————————		July 3, 1883 Mar. 25, 1884
295,805		Telephonic telegraphs, magnetic Telephonic telegraphs, electric	
295,806		do	Mar. 25, 1884
295,807	Randall, C. A.	do	
291,399		Conductors	
293,980 299,011		BellsIndicators	
286,963	Reed, T. S		
290,925	Rew, H. C	Lights, systems and appliances	Dec. 25, 1883
290,926	Rew, H. C	Applications, general	Dec. 25, 1883
290,927 290,930		do	
287,166		Telephonic telegraphs, electric	
292,586	Rhodes, T. H	Cut-outs, thermal	Jan. 29, 1884
283,662	Richter, C.	Lights, are	Aug. 21, 1883
294,913	Richter, C.	Magneto-electric	Mar. 11, 1884

No.	Name.	CLASS.	Date.
282,227	Dichton D	- Gas-lighting	Tul 91 1009
281,730	Rieketts, P. C	- Connectors	Inly 21, 1883
292,178	Rider, A. K		Jan 22 1884
294,405	Rider, A. K		Mar. 4 1884
296,355	Ritchie, J.		Apr. 8, 1884
289,309	Robertson, J. II		Nov. 27, 1883
296,357	Rogers, A. J.		
285,076	Rogers, E		Sept. 18, 1883
281,223	Rogers, H. D.	Conductors	July 10, 1883
281,560	Rogers, J. H	Telephonie telegraphs, electrie	July 17, 1883
287,169	Rogers, J. II	do	Oct. 23, 1883
288,366	Rogers, J. H	Telephonic telegraphs, mechanical	Nov. 13, 1883
292,857	Rogers, J. H		
292,858	Rogers, J. H		
297,166	Rogers, J. H	Telephonie telegraphs, magnetic	Apr. 22, 1884
297,167	Rogers, J. H		Apr. 22, 1884
297,168	Rogers, J. H		
280,518	Rogers, J. W.		
283,665	Rogers, J. W	Telegraphs, automatie	
287,170	Roovers, A. and A	Therapeutics, body-wear	
298,121 290,709	Ross, C. T.		
290,709	Ross, O. C. D	Batteries, galvanie	Ech 26, 1883
294,555	Rouleau, F. V		
285,682	Rousseau, D	Gas-lighting	
300,134		Annunciators	
289,449		Insulators	
291,405		Meters	
292,180	Ryder, S.	Connectors	Jan. 22, 1884
280,521	Sawyer, W. II	Conductors	July 3, 1883
295,287	Sawyer, W. II	Clocks	Mar. 18, 1884
297,855	Sawyer, W. H	Conductors, anti-inductive	Apr. 29, 1884
298,507		Motors	May 13, 1884
300,139		Clocks	June 10, 1884
288,496	Schlaeffi, J. P. A	do	Nov. 13, 1883
282,784	Schlosser, P. P	Batteries, galvanic	Aug. 7, 1883
298,030	Schmodon 1	Applications, tools and machines	May 0, 188±
296,464 291,944	Schurler D. L. and Waterhouse A. G.	Batteries, galvanic	Apr. 8, 1884
282,229	Scott C 1	Railway-signals	July 31, 1883
282,230		do	
283,152	Scott, C. A	do	Aug. 14, 1883
292,687	Scott, C. A	do	Jan. 29, 1884
283,927	Scribner, C. E	Telephonic telegraphs, systems	Aug. 28, 1883
284,908	Scribner, C. E	do	Sept. 11, 1883
284,909	Scribner, C. E	do	
287,873		Magneto-electric, hand-machines	
292,865	Scribner, C. E	Telephonic telegraphs, systemsdo	
292,866	Scribner, C. E	do	Feb. 5, 1884
293,196 293,197		do	Feb. 5, 1884 Feb. 5, 1884
293,198		do	
294,336	Scribner C E	do	Feb. 26, 1884
298,783	Scribner, C. E	Telephonic telegraphs, magnetic	May 20, 1884
300,143	Scribner, C. E	Telephonic telegraphs, magnetic Telephonic telegraphs, systems	June 10, 1884
300,144	Scribner, C. E	do	June 10, 1884
296,881	Seely, J. A	Insulators	Apr. 15, 1884
298,242	Seiler, P.	Annunciators	May 6, 1884
281,406	Selden, C	Telephonie telegraphs, mechanical	July 17, 1883
281,407		dodo	
291,094	Selden, C.	do	Jau. 1, 1884
291,095	Selden, C	Railway-signals	Jan. 1, 1884
291,096		Telegraphs, duplex	
291,097 296,230	Solioman H and E	Telephonie telegraphs, mechanical	Jan. 1, 1884
292,691	Sellon J. S.	Regulators	Jan. 29 1884
299,021		Batteries, secondary, applications	
280,677		Lights, are	
294,817	Shaffer, C. H	Dental instruments	Mar. 11, 1884
298,243	Shaver, G. F	Telephonic telegraphs, systems	May 6, 1884
289,575	Shaw, T	. Conductors	Dec. 4, 1883
296,074	Shaw, T	do	Apr. 1, 1884
	Show W 1	do	Dec. 11, 1883
290,121	CHan, II. A.	1	T) . 1 1 1000
290,121 290,122	Shaw, W. A	do	Dec. 11, 1883
290,121	Shaw, W. A	do	Dec. 11, 1883 Jan. 29, 1884

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No.	Name.	Class.	DATE.
281,800	Sheehy, R. J	Lights, are	July 24, 1883
283,155	Sheehy, R. J		
284,247	Sheehy, R. J		
284,497	Sheehy, R. J		Sept. 4, 1883
285,691 289,456	Sheehy, R. J	Magneto-electric	
289,862	Sheehy, R. J		
294,688	Sheehy, R. J		
295,058	Sheehv, R. J	Lights, arc	Mar. 11, 1884
297,175	Shelbourne, S. F.	Conductors, anti-inductive	Apr. 22, 1884
297,176	Shelbourne, S. F.	do	Apr. 22, 1884
297.177 297,178	Shelbourne S F	do	Apr. 22, 1884
297,179	Shelbourne, S. F	Underground lines	Apr. 22, 1884
297,180	Shelbourne, S. F	Conductors, anti-inductive	Apr. 22, 1884
297,181	Shelbourne, S. F		
297,182	Shelbourne, S. F.		
297,183 297,184	Shelbourne, S. F	Underground lines Conductors, anti-inductive	Apr. 22, 1884
287,875	Shepard, C. S.		
286,737	Shepherd, G. R	Telephonic telegraphs, magnetic	
299,277	Sheridan, H. B	Lights, systems and appliances	
300,648	Sheridan, H. B. and Gorn, H. A.	Motors	
289,720 281,931	Shields, JShivler, C. S	Applicatious, general————————————————————————————————————	
295,445	Shivler, C. S.	Alarms, burglar	
299,025	Short, S. H.	Lights, arc	May 20, 1884
295,059	Shute, E. L	Gas-lighting	Mar. 11, 1884
297,022	Skinner, J. J	Lights, arc	Apr. 15, 1884
291,948 292,374	Small, D. M.——————————————————————————————————	Applications, tools and machines Gas-lighting	Jan. 15, 1884 Jan. 22, 1884
287,881	Smith, C. D. F	Lights, systems and appliances	Nov. 6, 1883
297,724	Smith, D. E	Telephonic telegraphs, relays and repeaters	Apr. 29, 1884
280.869	Smith, F. A	Underground lines	July 10, 1883
291,236	Smith, G		Jan. 1, 1884
297,186		Telegraphs, multiplex	Apr. 22, 1884 Apr. 22, 1884
297,540 284,498	Smith, G	Telegraphs, duplex	Sept. 4, 1883
293,532		Conductors	
297,306		Locomotion	
293,533	Smith, T. L	Underground lines	Feb. 12, 1884
297,462 297,463	Smith T I	do	Apr. 22, 1884 Apr. 22, 1884
288,881		Relays and sounders	Nov. 20, 1883
292,142	Smyth, C. A	Batteries, secondary	Jan. 15, 1884
282,791	Snell, F. H	Telephonic telegraphs, systems	Aug. 7, 1883
284,915	Somers, G. E	Connectors	Sept. 11, 1883
281,937 284,082	Spang, H. W		
284,505	Spang, H. W		Sept. 4, 1883
286,086	Spang, H. W	Lightning-rods	Oct. 2, 1883
282,680	Sparling, J. A	Conductors	Aug. 7, 1883
295,686 286,861		Applications, general	
289,869	Spelman, P. H	Underground lines Telegraphs, fire	Dec. 11, 1883
293,906	Spengler, C. G.	Indicators	May 20, 1884
286,970	Sperry, É. A	Annunciators	Oct. 16, 1883
297,866	Sperry, E. A	Regulators	Apr. 29, 1884
297,867	Sperry, E. A	Motors	Apr. 29, 1884
300,403 295,454_	Sprague F. J.	Motors	Mar. 18, 1884
296,641	Springer, L. C	Morse registers	Apr. 8, 1884
284,508	Spurgeon, S. J.	Keys	Sept. 4, 1883
293,105	Spurgeon, S. J.	do	Feb. 5, 1884
286,497 288,132	Stanard P. T	Magneto-electric	Nov. 6 1883
291,239	Stanley, H. D	do	Jan. 1, 1884
283,433	Stanley, H. D. and Doolittle, G	do	Aug. 21, 1883
294,412	Stanley, W., ir	Lights, systems and appliances	Mar. 4, 1884
299,177	Stanley, W., jr	Batteries, secondary	May 27, 1884
299,178 293,679	Stark, W. F	Therapeutics, body-wear	Feb. 19, 1884
281,156	Starr, E. T	Batteries, secondary	July 10, 1883
282,396	Starr, E. T	do	July 31, 1883
282,795	Starr, E. T	Batteries, galvanic	Aug. 7, 1883
283,295	Starr, E. T	Batteries, secondary	Dec. 25 1883
290,941	Dtall, D. 1	uv	1000 1000

No.	Name.	CLASS.	DATE.
290,942	Starr, E. T	Batteries, secondary	Dec. 25, 1883
290,943	Starr, E. T		Dec. 25, 1883
291,798 $295,455$	Starr, E. T	Underground lines Batteries, secondary	Jan. 8, 1884 Mar. 18, 1884
295,456	Starr, E. T	do	Mar. 18, 1884
295,889	Starr, E. T	do	Mar. 25, 1884
299,434	Starr, E. T	do	May 27, 1884
300,154	Starr, E. T	Motors_	June 10, 1884
300,155		Lights, systems and appliances	June 10, 1884
300,523	Starr, E. T	do	June 17, 1884 June 17, 1884
300,524 $300,525$	Starr E T	do	June 17, 1884
281,412	Starr. E. T. and E. E.	do	July 17, 1883
284,577	Starr, E. T. and E. E	Batterics, secondary	Sept. 4, 1883
281,413	Stearns, J. M., jr	Telephonic telegraphs, systems	July 17, 1883
281,414	Stearns, J. M., jr		July 17, 1883
295,206	Stevens, H. M		Mar. 18, 1884
288,677 $294,928$	Stevenson, T. S		Nov. 20, 1883 Mar. 11, 1884
299,288	Stewart, J. N.		May 27, 1884
281,576	Stieringer, L	Lights, systems and appliances	July 17, 1883
294,697	Stieringer, L	do	Mar. 4, 1884
285,852	Stilwell, R	Therapcuties, electrodes	Oct. 2, 1883
285,853		do	Oct. 2, 1883
285,854 $284,255$	Stockwell I. W	Motors	Oct. 2, 1883 Sept. 4, 1883
291,636		do	Jan. 8, 1884
292,382		Regulators	Jan. 22, 1884
298,130	Stockwell, L. W.		May 6, 1884
295,073		Conductors	Mar. 11, 1884
295,074		Transmittersdo	Mar. 11, 1884
295,075 295,207		Conductors	Mar. 11, 1884 Mar. 18, 1884
281,579	Storer, G. W		July 17, 1883
297,470	Strangways, H. B. T	Telephonic telegraphs, magnetic	Apr. 22, 1884
289,164	Strohm, S. D	Underground lines	Nov. 27, 1883
289,165	Strolim, S. D	do	Nov. 27, 1883
289,166 288,888	Strondley, W. and Houghton, E. J	Puttorios gocondary applications	Nov. 27, 1883 Nov. 20, 1883
289,320	Suit, S. T.	Batteries, secondary, applications	Nov. 27, 1883
291,802	Sutton, L. W., jr		Jan. 8, 1884
282,472	Swan, A		July 31, 1883
292,447		do	Jan. 22, 1884
298,913	Swayze, S. J. and Lane, J. C.		May 20, 1884
284,578 289,725	Sweet, D. F		Sept. 4, 1883 Dec. 4, 1883
292,962	Talbot, C. N		Feb. 5, 1884
285,523	Tanner, W. J.	Separators	Sept. 25, 1883
299,036	Taylor, G. W., Cox, A. R., Brown, W. C. and Sutherland, J. N.	Telcgraphs, fire	May 20, 1884
289,173 293,110	Taylor, T. F.	Telegraphs, automaticdo	Nov. 27, 1883 Feb. 5, 1884
293,110		do	
293,112		do	
290,611		Batteries, secondary	Dec. 18, 1883
296,365	Thame, H		
290,495 283,166	Thau, H Thomas, H. C		Aug. 14, 1883
283,042		Lights, are	Aug. 14, 1883
288,513	Thomas, W. M.	Locomotion	Nov. 13, 1883
291,958	Thomas, W. M.	Cut-outs, electro-magnetic	Jan. 15, 1884
300,532		do	June 17, 1884
286,867		Telegraphs, duplex	Oct. 16, 1883
282,131 281,416	Thompson, H. M.——————————————————————————————————	Separators	July 31, 1883 July 17, 1883
283,167		do	Aug. 14, 1883
283,168	Thomson, E	Lights, are	Aug. 14, 1883
283,437	Thomson, E	do	Aug. 21, 1883
289,580	Thomson, E	do	Dec. 4, 1883
294,094 294,095		Magneto-electric	
295,836		Lights, arc	
296,799	Thomson, E	Regulators	Apr. 15, 1884
297,194	Thomson, E	Lights, arc	Apr. 22, 1884
297,195	Thomson, E	do	Apr. 22, 1884
297,196	Thomson, E	do	Apr. 22, 1884
297,197	Thomson, E		mpr. 22, 100x

No.	Name.	Class.	Date.
297.198	Thomsen, E	Lights, arc	Apr. 22, 1884
297,199	Thomson, E	do	Apr. 22, 1884
297.200		do	Apr. 22, 1884
297.201 285,445		do	Apr. 22, 1884 Sept. 25, 1883
287.067		do	Oct. 23, 1883
280,882	Tichenor, A. C.	Applications, general	July 10, 1883
300,410		Conductors	June 17, 1884
293,116 283,303		Electro-magnets	Feb. 5, 1884
285,505		Circuit-closers Batteries, galvanic	Aug. 14, 1883 Jan. 1, 1884
289,470	Tomney, J	Alarms, burglar	Dec. 4, 1883
289,471	Tomney, J	do	
284,342	Tompkins, C. T.		
299.968 280,689	Torre, F. D.		
293,921	Townsend, H. C. and Buckingham, C. L		July 3, 1883 Feb. 19, 1884
293,118	Townsend, L.		Feb. 5, 1884
293,688		Underground lines	Feb. 19, 1884
289.178	Tregurtha, J		Nov. 27, 1883
289,179 289,180		do	Nov. 27, 1883
289,180 289,321		do	Nov. 27, 1883 Nov. 27, 1883
284,343	Tribe, A	Batteries, secondary	Sept. 4, 1883
296,485	Tringham, J. W	Insulators	Apr. 8, 1884
297,647	Tuck, J. H. L		Apr. 29, 1884
297,648 286.158	Tuck, J. H. L		Apr. 29, 1884 Oct. 2, 1883
283,044	Turner, D. B	Conductors	Aug. 14, 1883
299,600	Turner, T. G	Lights, are	June 3, 1884
290,149	Unger, J. and Eisele, S. O-	Batteries, galvanic	Dec. 11, 1883
290,150	Unger, J. and Eisele, S. O.		Dec. 11, 1883
293,381 286,350	Upham, J. C. and Rogers, J. P	Railway signals————————————————————————————————————	Feb. 12, 1884 Oct. 9, 1883
296,253	Vail, T. N	Telephonic telegraphs, systems	Apr. 1, 1884
299,039	Vail, T. N	do	May 20, 1884
300,168	Vail, T. N	Annunciators	June 10, 1884
282,016 290,152	Vance S R H and Hinds C H	Lights, systems and appliances	July 24, 1883 Dec. 11, 1883
286.241	Van Choate, S. F	Magneto-electric	Oct. 9, 1883
286,242	Van Choate, S. F	do	Oct. 9, 1883
286,873 282,414		Motors	
284.779		Batteries, secondary Lights, systems and appliances	July 31, 1883 Sept. 11, 1883
235,527		Regulators	Sept. 25, 1883
285,528	Van Depoele, C. J		
285,529	Van Depoele, C. J	Batteries, secondary	Sept. 25, 1883
285,857 285,858		Motors Locomotion	Oct. 2, 1883 Oct. 2, 1883
285,859	Van Depoele, C. J	Lights, systems and appliances	Oct. 2, 1883
286,093	Van Depoele, C. J	Lights, are	Oct. 2, 1883
286,094	Van Depoele, C. J	do	Oct. 2, 1883
287,343 287,344		Magneto-electric	
287,345	Van Depoele, C. J	Regulators	Oct. 23, 1883
287,346	Van Depoele, C. J	Conductors	Oct. 23, 1883
287,347		Lights, systems and appliances	
288,682 291,553		Cut-outs, thermal Lights, arc Lights	
291,554		Regulators	
291,648	Van Depoele, C. J	Cut-outs, electro-magnetic	
291,649	Van Depoele, C. J	do	Jan. 8, 1884
291,650		Motors	
291,651 291,652		Lights, arc Cut-outs, electro-magnetic	
291,653		Lights, are	
294,165	Van Depoele, C. J	Motors	Feb. 26, 1884
294,532	Van Depoele, C. J	Lights, are	Mar. 4, 1884
294,533		Manusta alastiis	
297,878 298,431		Magneto-electricdo	
300,535		do	
299,700	Van Derveer, M. T. and Hegeman, J.	Separators	June 3, 1884
300,034	Vander Weyde, P. H.	Telegraphs	June 10, 1884
284,094 $284,516$	Van Hoevenbergh, II	Conductors	Aug. 28, 1883 Sept. 4 1883
285,709	Van Hoevenbergh, H	Telegraphs, printing	Sept. 25, 1883
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No.	NAME.	Class.	DATE.
285,710	Van Hoevenbergh, H	Telegraphs, printing	Sept. 25, 1883
286,977	Van Hoevenbergh, H	do	Oct. 16, 1883
290,292	Van Hoevenbergh, H	Lights, are	Dec. 18, 1883
292,772 292,966	Van Hoevenbergh H	Conductors Telegraphs, printing	Jan. 29, 1884 Feb. 5, 1884
293,922	Van Hoevenbergh, H	do	Feb. 19, 1884
293,923	Van Hoevenbergh, H	Motors	Feb. 19, 1884
293,924		Telegraphs, printing	
293,925	Van Hoerenbergh, H	do	Feb. 19, 1884
293,926 293,927	Van Hoevenbergh H	do	Feb. 19, 1884 Feb. 19, 1884
293,928	Van Hoevenbergh, H	do	Feb. 19, 1884
297,879	Van Hoevenbergh, H	Gas-lighting	Apr. 29, 1884
280,536	Vansize, W. B.	Telegraphs, fire	July 3, 1883
290,613 300,417		Telegraphs, printing	
285,088	Van Wagenen H G	Clocks	Sept. 18, 1883
290,654	Velloni, G. G. L	Batteries, galvanic	Dec. 18, 1883
294,703	Verstraete, E	Underground lines	Mar. 4, 1884
298,922	Vetter, J. C. and Putnam, S. G	Motors	May 20, 1884
300,666		Batteries, galvanic	June 17, 1884
291,556 291,435	Wagner, C. H	Railway signals Telegraph-poles	Jan. 8, 1884 Jan. 1, 1884
281,585	Wagner, G. G	Clocks	
296,256	Wagner, G. G	do	Apr. 1, 1884
286,875	Waite, H. E.	Telephonic telegraphs, magnetic	Oct. 16, 1883
286,876		do	Oct. 16, 1883
287,742 292,602		do	Oct. 30, 1883 Jan. 29, 1884
292,603	Waite, H. E.	Telephonic telegraphs, electric	Jan. 29, 1884
298,923	Waite, H. E	do	May 20, 1884
298,924	Waite, H. E.	Telephonic telegraphs, magnetie	May 20, 1884
298,925	Waite, H. E.	Telephonic telegraphs, electric	May 20, 1884
287,743 296,653	Walte, H. E. and Bartlett, S. H	Telephonic telegraphs, magnetic	Apr. 8, 1884
300,035		Electrolysis	
282,246	Wall, F. J	Circuit-closers	July 31, 1883.
300,537		Batteries, galvanic	
290,949		Electrolysis	
292,881 297,732		Telephonic telegraphs, electric	
284,098		Conductors	
284,099	Waring, R. S.	Underground lines	Aug. 28, 1883
284,100		do	
290,375 294,536		do	
294.537	Waring, R. S.	do	Mar. 4, 1884
294,538	Waring, R. S	do	Mar. 4, 1884
294,539	Waring, R. S.	do	Mar. 4, 1884
294,540		do	
294,541 294,542	Waring R S	do	Mar. 4, 1884
294,543	Waring, R. S.	do	Mar. 4, 1884
294,544	Waring, R. S	do	Mar. 4, 1884
294,545	Waring, R. S.	do	Mar. 4, 1884
294,546 294,547	Waring R S	do	Mar. 4, 1884 Mar. 4 1884
294,548		do	
294,549	Waring, R. S.	do	Mar. 4, 1884
294,550		do	
295,086 284,102		Tolonhonia telegraphs systems	
284,102		Telephonic telegraphs, systems	
299,603	Warner, J. C. and E. P.	do	June 3, 1884
284,784	Warren, H. J. and Packard, H. F	Gas-lighting	Sept. 11, 1883.
299,300	Warth, N. G	Telephonic telegraphs, systems	May 27, 1884
294,169 294,170		Regulatorsdo	
294,294		Lights, are	
293,929	Waters, W. T.	Motors	Feb. 19, 1884
300,420		Regulators	
285,327	Weaver, A. S.	Conductors Clocks	Sept. 18, 1883
289,944 294,552	Webb G B	Clocks	Mar. 4 1884
293,828	Weiss, C. W.	Recorders	Feb. 19, 1884
295,087	Welsh, A	Lights, incandescent	Mar. 11, 1884
295,088	Welsh, A	do	Mar. 11, 1884

No.	Name.	Class.	DATE.
299,708	Welsh, A	Lights, incandescent	June 3, 1884
299,885		do	June 3, 1884
292,079		Magneto-electric	Jan. 15, 1884
300,176	Wenzel, W		June 10, 1884
300,422 282,249	West, W. A		June 17, 1884 July 31, 1883
282,250	Westinghouse, G., jr		July 31, 1883
282,428	Weston, E	Meters	July 31, 1883
283,544	Weston, E		Aug. 21, 1883
283,545	Weston, E	do	Aug. 21, 1883
283,546	Weston, E		Aug. 21, 1883
283,547	Weston, E		Aug. 21, 1883
283,548 283,549	Weston, E	RegulatorsLights, systems and appliances	Aug. 21, 1883 Aug. 21, 1883
285,451	Weston, E		
285,714	Weston, E	Batteries, secondary, applications	Sept. 25, 1883
285,715	Weston, E	Lights, are	
289,197	Weston, E.	Transmission of power	Nov. 27, 1883
289,198	Weston, E	do	Nov. 27, 1883
289,199	Weston, E	Lights, systems and appliances	
289,200	Weston, E		Nov. 27, 1883
289,324 289,325	Weston, E	Regulatorsdo	Nov. 27, 1883 Nov. 27, 1883
289,326	Weston, E	do	Nov. 27, 1883
289,327	Weston, E	Lights, systems and appliances	Nov. 27, 1883
291,445	Weston, E	Regulators	Jan. 1, 1884
292,713	Weston, E	Cut-outs, thermal	Jan. 29, 1884
292,714	Weston, E	Indicators	Jan. 29, 1884
292,715	Weston, E	Regulators	Jan. 29, 1884
292,716 292,717	Weston, E	Lights, systems and appliances	Jan. 29, 1884
292,717	Weston, E	Conductors Lights, systems and appliances	Jan. 29, 1884 Jan. 29, 1884
292,719	Weston, E	Magneto-electric	Jan. 29, 1884
292,720	Weston, E	Lights, systems and appliances	Jan. 29, 1884
292,721	Weston, E	Regulators	Jan. 29, 1884
297,324	Weston, E	Rheostats	
298,141	Weston, E	Lights, systems and appliances	May 6, 1884
298,142	Weston, E		May 6, 1884 May 6, 1884
298,143 298,144		do	May 6, 1884 May 6, 1884
298,325	Weston E	do	May 6, 1884
298,326	Weston, E.		May 6, 1884
298,327	Weston, E	Lights, systems and appliances	May 6, 1884
301,023		do	June 24, 1884
301,024	Weston, E		June 24, 1884
301,025	Weston, E	Magneto-electric	June 24, 1884 June 24, 1884
301,026 301,027	Weston, E		June 24, 1884
301,028	Weston, E		June 24, 1884
301,029	Weston, E		June 24, 1884
301,030	Weston, E	Cut-outs, thermal	June 24, 1884
301,031	Weston, E	Conductors.	June 24, 1884
301,076	Weston, E	Lights, are	June 24, 1884
289,328	Weston, E. and Curtis, L. E.	Batteries, secondary, applications	Nov. 27, 1883
280,426 282,816	Wheeler, W White, L. S		July 5, 1883
284,348	White I. S	Telephonie telegraphs, calls	Sept 4 1883
298,531	White, L. S	Gas-lighting	May 13, 1884
289,590	White, N. S	Lights, incandescent	Dec. 4, 1883
286,518	Wilkins, G. A	Telephonic telegraphs, systems	Oct. 9, 1883
294,297	Wilkins, G. A	do	Feb. 26, 1884
282,822	Willard, C. A	Applications, general	Aug. 7, 1883
291,825 296,262	Williams, A. and Gannon, J. M	Cut-outs, mechanical	Jan. 8, 1884
286,359	Williams, F. 1. and Flowell, J. C.	Batteries, secondary Electrolysis	Oct. 9, 1883
295,966	Williamson, J. J	Conductors	
300,179	Williamson, J. J.	do	June 10, 1884
300,669	Williamson J J	do	June 17, 1884
288,906	Willson, R. W.	Clocks	Nov. 20, 1883
233,312	Wilson, C. H	Telephonic telegraphs, systems	Ang. 14, 1883
287,490	Wilson, E. L	Telephonic telegraphs, electric	Oct. 50, 1883
293,206	Wilson, E. M.	Telephonic telegraphs, systems	Teb. 5, 1884
283,448 284,527	Wilson, J. C.	Telephonic telegraphs, calls Telegraphs, fire	Aug. 21, 1883 Sept. 4, 1883
	17 HOUR, J. V.	reregrapus, me	Lept. 1, 1000
	Wilson, J. C.	do	Dec. 18, 1883
290,302 288,536	Wilson, J. C. Wilson, J. C. and Davis, M. G.	do do Telegraphs, automatic	Nov. 13, 1883

No.	NAME.	CLASS.	DATE.
294,557 300,933 286,667 285,334 286,100 286,566 286,888 293,993 296,096 286,247 299,449 286,985 293,612 297,547 288,908 288,909 300,334 295,710 284,110	Wright, C. D. and Fisher, C. A Wright, C. D. and Fisher, C. A Wüest, C Wylie, R	Batteries, secondary Telegraphs, printing Alarms, burglar Circuit-closers Alarms, burglardo Car-brakes Magnetic-locks Magneto-electric Underground lines Magneto-electric	June 24, 1884 Oct. 16, 1883 Sept. 18, 1885 Oct. 2, 1888 Oct. 9, 1883 Oct. 16, 1888 Feb. 19, 1884 Oct. 9, 1883 May 27, 1884 Oct. 16, 1885 May 27, 1884 Oct. 16, 1884 Nov. 20, 1883 Nov. 20, 1883 June 10, 1884 Mar. 25, 1884
	RE	ISSUES.	
10,401 10,402 10,434 10,435 10,403 10,404 10,350 10,351 10,458 10,459	Farrell, J Farrell, J Gassett, O Gassett, O Hyde, J. B Hyde, J. B Waring, R. S. and Hyde, J. B Waring, R. S. and Hyde, J. B Waring, R. S Waring, R. S Waring, R. S	Conductors, reissue of 262,027 Railway-signals, reissue of 266,957 Railway-signals, reissue of 266,957 Conductors, reissue of 281,999 Conductors, reissue of 281,999 Conductors, reissue of 267,044 Conductors, reissue of 267,045 Conductors, reissue of 267,046 Underground lines, reissue of 268,159	Nov. 6, 1883 Jan. 8, 1884 Jan. 8, 1884 Nov. 6, 1883 Nov. 6, 1883 July 3, 1883 July 3, 1883 July 3, 1883 Mar. 11, 1884



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